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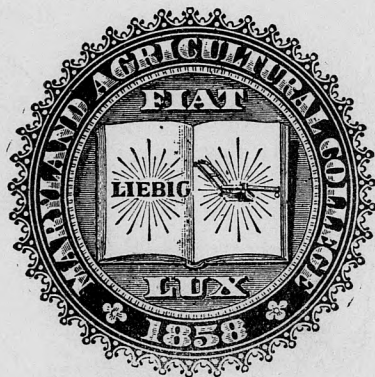
FEBRUARY.

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FERTILIZER ANALYSES.

R. W. SILVESTER, - - - - - President.

Edited by H. B. McDONNELL, State Chemist and Professor of Chemistry.



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ADDRESS

Chemical Department, Maryland Agricultural College,
COLLEGE PARK, MD.

ANALYSIS OF

Commercial Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

THE MARYLAND AGRICULTURAL COLLEGE.

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The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from *September, 1907, to January, 1908, inclusive.*

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name appears after the place of sampling. No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid" are percentages, or pounds per hundred. To get pounds per ton multiply the figures by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing of the numbers.

To get "Total" phosphoric acid add the "Insoluble" to the "Available" phosphoric acid.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values.

In Mixed Fertilizer:

For Nitrogen, calculated as Ammonia.....	20 cts. per pound.
For Potash (K_2O), in forms free from muriate.....	6 cts. per pound.
For Potash (K_2O), as muriate, or Kainit.....	5 cts. per pound.
For Available Phosphoric Acid.....	6 cts. per pound.
For Insoluble Phosphoric Acid.....	2 cts. per pound.
For Insoluble Phosphoric Acid when from Rock.....	1 ct. per pound.

In Dissolved Rock:

Available Phosphoric Acid.....	4½ cts. per pound.
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In Tankage, Fish and Ground Bone:

For Nitrogen, calculated as Ammonia.....	15 cts. per pound.
For Phosphoric Acid.....	3 cts. per pound

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

It should be noted that plant food costs more in low grade or "cheap" fertilizers than it does in high grade goods. Thus a 1-5-1 fertilizer (1 per cent of ammonia, 5 per cent of available phosphoric acid and 1 per cent of potash) will cost more than half as much as a 2-10-2 fertilizer, though it only contains half as much plant food. The demand for "cheap" fertilizers causes low-grade materials to be at a premium, even when less efficient and less available than the same amount of actual plant food in the higher grade goods.

Farmers are advised to demand 16 per cent dissolved rock or acid phosphate. Practically all 14 per cent goods are adulterated. Do not expect to get the 16 per cent goods at the same price paid for the 14 per cent, however. The higher grade will cost about \$1 per ton more. The cheapest filler is the soil in the field and the cheapest mixing machine is the harrow.

"Standard grade" or 14 per cent acid phosphate would, in practice, be made by reducing 1800 lbs. of the high-grade, 16 per cent goods, with 200 lbs. of filler or make-weight, making a ton which, theoretically, would contain 14.40 per cent of available phosphoric acid, and could safely be guaranteed to run 14 per cent.

Low grade mixed fertilizers should be avoided, such as a fertilizer guarantee to contain ¼ per cent Ammonia, 6 per cent Available Phosphoric acid and 1 per cent of Potash. Such a fertilizer could be made as follows: 50 lbs. Ground Fish, 750 lbs. Dissolved Rock and 40 lbs. Muriate of Potash to the ton; this would necessitate the use of 1160 lbs. of filler in each ton. It would be much more economical to buy half a ton of good fertilizer.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
17108	American Agricultural	Big Crop Phosphate.	Melrose.....
17069	Chemical Co., N.Y., N.Y.	Big Crop Phosphate.....	Baltimore.....
17257	" " "	Bone Meal	Baltimore.....
17153	" " "	Buyers' Choice 14% Acid Phosphate.	Baltimore.....
17009	" " "	Dead Shot Phosphate.....	Baltimore.....
17082	" " "	Dissolved Animal Bone...	Baltimore.....
17211	" " "	Excelsior Alkaline Bone..	Baltimore.....
17070	" " "	Fine Ground Bone.....	Baltimore.....
17212	" " "	Forsythe & Linthicum Mixture.	Ellicott City.....
17093	" " "	Gem Alkaline Phosphate.	Locust Point.....
17081	" " "	Genuine Corbett's Mix- ture.	Baltimore.....
17055	" " "	Improved Wheat and Clover Producer.	Baltimore.....
17214	" " "	Orchilla Guano.....	Baltimore.....
17092	" " "	Pure Ground Bone.....	Baltimore.....
17013	" " "	Pure Ground Bone.....	Baltimore.....
17177	" " "	Royal Alkaline Bone	Walkersville.....
17111	" " "	Soluble Bone Phosphate and Potash.	Mt. Airy.....
17014	" " "	Special Potash Mixture..	Baltimore.....
17188	" " "	Square Deal Phosphate...	Baltimore.....
17015	" " "	Top Notch Phosphate.....	Baltimore.....
17152	A. A. C. Co. (Canton), Baltimore, Md.	Baker's Dissolved Bone Phosphate.	Baltimore.....
9737	" " "	Baker's Dissolved South Carolina Bone.	Thurmont
17210	" " "	Baker's Fish Guano.....	Baltimore.....

FERTILIZER ANALYSES.

5

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17108	.....	.....	4.94	5.00	0.60	.....	8.58	8.00	\$12.78	\$12.20
17069	.....	.....	5.06	5.00	0.70	.....	8.37	8.00	12.73	12.20
17257	1.86	2.00	.....	.....	14.11*	13.73*	.....	.....	14.05	14.24
17153	.....	.....	.....	.....	1.05	.....	14.32	14.00	13.10	12.60
17009	.82	0.50	2.02	2.00	1.35	.....	8.10	8.00	15.56	13.60
17082	2.75	2.50	.....	.....	3.82	.....	11.15	12.00	25.91	24.40
17211	.....	.....	5.14	5.00	0.75	.....	8.80	10.00	13.21	14.00
17070	3.36	3.00	.....	.....	26.28*	50.00†	.....	.....	25.85	22.68
17212	2.49	2.25	3.92	4.00	3.72	4.50	9.94	9.00	27.30	25.60
17093	.....	.....	3.40	3.00	0.80	.....	6.42	6.00	9.34	8.40
17081	.....	.....	5.24	5.00	1.18	.....	12.02	12.00	16.30	15.80
17055	1.06	1.00	2.04	2.00	1.16	.....	11.38	12.00	20.40	20.40
17214	.....	.....	.....	.....	11.75	14.00	4.80	.....	10.46	5.60
17092	4.81	4.00	.....	.....	21.07*	45.00†	.....	.....	27.07	24.36
17013	3.99	4.00	.....	.....	20.07*	45.00†	.....	.....	24.01	24.36
17177	.....	.....	3.88	4.00	1.12	.....	10.98	10.00	13.98	13.00
17111	.....	.....	1.98	2.00	1.17	.....	10.13	10.00	11.33	11.00
17014	1.33	1.00	6.76	7.00	1.47	.....	9.15	9.00	23.65	21.80
17188	2.27	2.00	4.22	4.00	1.71	.....	7.68	8.00	23.20	21.60
17015	2.25	2.00	5.02	5.00	1.70	.....	8.33	8.00	24.70	22.60
17152	.....	.....	.....	.....	0.97	.....	13.87	14.00	12.67	12.60
9737	.....	.....	.....	.....	1.62	.....	14.27	14.00	13.16	12.60
17210	1.72	2.00	2.28	2.00	1.42	.....	8.26	8.00	19.64	19.60

* Total Phosphoric Acid.

† "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17079	A. A. C. Co. (Canton), Baltimore, Md.	Baker's Special Wheat, Corn and Grass Mixture.	Baltimore.....
17248	" " "	Baker's Special Wheat, Corn and Grass Mixture.	Thurmont.....
17249	" " "	Eagle Phosphate.....	Emmitsburg.....
17094	" " "	Harrow Brand Crop Grower.	Baltimore.....
17258	" " "	Potato Manure.....	Baltimore.....
17115	" " "	Resurgam Guano.....	Hampstead.....
17053	" " "	Resurgam Guano.....	Baltimore.....
17247	A. A. C. Co. (Detrick), Baltimore, Md.	Ammoniated Bone Phos- phate.	Harmony Grove...
17259	" " "	Ammoniated Bone Phos- phate.	Baltimore.....
9726	" " "	Bone and Potash, 16 x 4 Mixture.	Baltimore.....
17217	" " "	Corn and Oats Fertilizer.	Baltimore.....
17154	" " "	Dissolved S. C. Bone....	Baltimore.....
17157	" " "	Imperial Compound.....	Baltimore.....
17016	" " "	K. K. K. Kangaroo Kom- plete Kom-pound.	Baltimore.....
17113	" " "	K. K. K. Kangaroo Kom- plete Kom-pound.	Mt. Airy.....
17112	" " "	P. & B. Special Mixture.	Mt. Airy.....
17091	" " "	P. B. Special.....	Baltimore.....
17017	" " "	Royal Crop Grower.....	Baltimore.....
17080	" " "	Soluble Bone and Potash.	Baltimore.....
17065	" " "	Soluble Bone Phosphate and Potash.	Baltimore.....
17018	" " "	Standard Potash Fertilizer	Baltimore.....
17218	" " "	Victory Alkaline Bone....	Baltimore.....
17019	A. A. C. Co. (Lazaretto), Baltimore, Md.	Ammoniated Bone Phos- phate.	Baltimore.....

FERTILIZER ANALYSES.

7

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17079	1.21	1.00	2.06	2.00	1.07	.....	9.47	9.00	\$18.69	\$16.80
17248	1.11	1.00	1.96	2.00	0.90	1.00	9.89	9.00	18.63	17.20
17249	1.16	1.00	1.10	1.00	1.20	.....	7.74	7.00	15.51	13.40
17094	1.09	1.00	1.02	1.00	1.55	.....	8.62	8.00	16.34	14.60
17258	1.66	1.50	5.32	5.00	1.80	.....	5.82	6.00	19.66	18.20
17115	1.18	1.00	4.20	4.00	1.37	.....	7.91	8.00	18.96	17.60
17053	1.19	1.00	4.08	4.00	1.50	.....	7.84	8.00	18.85	17.60
17247	1.88	2.00	2.02	2.00	1.35	.....	8.74	8.00	20.57	19.60
17259	1.76	1.50	2.18	2.00	1.32	.....	9.04	9.00	20.60	18.80
9726	.....	.....	3.76	2.00	0.82	.....	10.15	11.00	13.06	11.90
17217	1.09	1.00	3.44	3.00	1.20	.....	9.02	9.00	19.10	17.80
17154	.....	.....	.....	.....	2.55	.....	13.63	14.00	12.78	12.60
17157	2.18	2.00	2.20	2.00	1.55	.....	8.03	8.00	21.18	19.60
17016	2.22	2.00	3.02	3.00	1.52	.....	8.13	8.00	22.27	20.60
17113	2.15	2.00	3.20	3.00	2.12	.....	8.15	8.00	22.43	20.60
17112	.....	.....	3.00	3.00	1.55	.....	11.90	12.00	14.02	13.80
17091	.....	.....	3.50	3.00	1.45	.....	12.34	12.00	14.90	13.80
17017	2.17	2.00	2.02	2.00	1.80	.....	8.05	8.00	21.08	19.60
17080	.....	.....	2.10	2.00	1.87	.....	10.40	10.00	11.83	11.00
17065	.....	.....	2.01	2.00	1.82	.....	10.15	10.00	11.51	11.00
17018	1.79	1.50	5.52	5.00	1.82	.....	6.08	6.00	20.71	18.20
17218	.....	.....	5.08	5.00	0.60	.....	12.28	12.00	16.25	15.80
17019	1.23	1.00	2.22	2.00	1.60	.....	8.05	8.00	17.44	15.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. (and Sampler, when not the College.)
17058	A. A. C. Co. (Lazaretto), Baltimore, Md.	Bone Compound	Baltimore.....
17159	" " "	Crop Grower.....	Baltimore.....
17066	" " "	Dissolved Bone Phosphate	Baltimore.....
17158	" " "	Dissolved Bone and Pot- ash.	Baltimore.....
17151	" " "	Dissolved Bone and Pot- ash.	Baltimore.....
17117	" " "	Excelsior A. A. A.....	Hampstead.....
17136	" " "	Excelsior A. A. A.....	Baltimore.....
17165	" " "	Excelsior A. A. A.....	Hampstead.....
17176	" " "	Farmers' Choice.....	Sandy Springs....
17134	" " "	H. G. Dissolved Bone and Potash.	Baltimore.....
17067	" " "	H. G. Dissolved Bone Phosphate and Potash..	Baltimore.....
17083	" " "	Retriever Animal Bone Fertilizer.	Baltimore.....
17155	" " "	Special Wheat, Corn and Grass Grower.	Baltimore.....
17057	" " "	Special Wheat and Grass Fertilizer.	Baltimore.....
17203	" " "	Tomato Compound.....	Magnolia.....
9739	" " "	Wheat, Corn and Grass Grower.	Newark.....
9749	A. A. C. Co. (Maryland), Baltimore, Md.	Md. Alkaline Bone.....	Baltimore.....
17213	" " "	Md. Bone Super-Phos- phate.	Baltimore.....
17250	" " "	Md. South Carolina Dis- solved Phosphate.	Knoxville.....
17054	" " "	Md. Magic Guano.....	Baltimore.....
9727	A. A. C. Co. (Nickerson), Easton, Md.	Alkaline Bone and Potash.	Baltimore.....
17033	" " "	Dissolved Bone and Pot- ash.	Baltimore.....
17034	" " "	Eastern Shore Domestic Guano.	Baltimore.....

FERTILIZER ANALYSES.

9

No.	NITROGEN Calculated as AMMONIA.		POTASH. K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17058	1.54	1.25	3.52	3.00	1.45	.....	9.06	9.00	\$21.13	\$18.80
17159	2.17	2.00	2.36	2.00	1.25	.....	8.30	8.00	21.50	19.60
17066	.....	.....	.....	.....	1.52	.....	13.90	14.00	12.81	12.60
17158	.....	.....	2.24	2.00	1.60	.....	10.53	10.00	12.04	11.00
17151	.....	.....	4.98	5.00	0.97	.....	12.74	12.00	16.64	15.80
17117	1.18	1.00	1.04	1.00	1.32	.....	7.35	7.00	15.11	13.40
17136	1.14	1.00	1.22	1.00	1.10	.....	7.49	7.00	15.21	13.40
17165	1.23	1.00	1.18	1.00	1.00	.....	7.83	7.00	15.90	13.40
17176	1.21	1.00	2.08	2.00	1.05	.....	9.12	9.00	18.28	16.80
17134	.....	.....	4.96	5.00	1.32	.....	10.54	10.00	14.71	14.00
17067	.....	.....	3.42	3.00	1.35	.....	12.36	12.00	14.81	13.80
17083	2.42	2.25	4.22	4.00	3.87	4.50	9.84	9.00	27.26	26.60
17155	0.63	0.50	2.02	2.00	0.70	.....	8.04	8.00	14.47	13.60
17057	1.09	1.00	4.00	4.00	0.93	.....	8.24	8.00	18.62	17.60
17203	1.64	1.50	5.92	5.00	0.95	.....	6.24	6.00	20.35	18.20
9739	0.70	0.50	2.18	2.00	0.87	.....	8.45	8.00	15.47	13.60
9749	.....	.....	2.86	3.00	1.30	.....	12.37	12.00	14.25	13.80
17213	.....	.....	2.30	2.00	0.60	.....	10.13	10.00	11.54	11.00
17250	.....	.....	.....	.....	0.62	.....	14.87	14.00	13.50	12.60
17054	1.16	1.00	2.02	2.00	0.92	.....	12.82	9.00	22.41	16.80
9727	.....	.....	2.30	2.00	0.67	.....	9.40	10.00	10.89	11.00
17033	.....	.....	5.12	5.00	1.45	.....	12.61	12.00	16.76	15.80
17034	2.22	2.00	3.06	3.00	1.55	.....	8.65	8.00	22.94	20.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17138	A. A. C. Co. (Nickerson), Easton, Md.	English Mixture.....	Baltimore.
17052	" " "	Nickerson's Mixture.....	Baltimore.
17106	" " "	Nickerson's Mixture.....	Hampstead
17050	A. A. C. Co. (Packers' Union), Rutland, Vt	American Wheat and Rye Grower.	Baltimore.
17049	" " "	Universal Fertilizer.....	Baltimore.
17187	A. A. C. Co. (Reese), Baltimore, Md.	Dissolved Phosphate of Lime.	Baltimore.....
17215	" " "	Reese's Grain and Grass	Baltimore.....
17156	" " "	Special Crown Phosphate and Potash.	Baltimore.....
9728	A. A. C. Co. (Susquehanna), Baltimore, Md.	Alkaline Bone Phosphate	Baltimore.....
17056	" " "	Ammoniated Bone Phosphate.	Baltimore.
17048	" " "	Crop Grower.....	Baltimore.
17105	" " "	Crop Grower.....	Hampstead
17084	" " "	Grain and Grass Producer	Baltimore.....
17137	" " "	H. G. Bone and Potash..	Baltimore.
17020	" " "	Pure Bone Phosphate....	Baltimore.....
17202	" " "	Pure Bone Phosphate....	Bel Air
17189	" " "	Soluble Bone and Potash.	Baltimore.....
17104	" " "	Superior Rock Phosphate.	Hampstead
17051	" " "	Superior Rock Phosphate.	Baltimore.....
17256	A. A. C. Co. (Tygert Allen), Philadelphia, Pa.	Standard Bone Phosphate	Providence.....
17068	A. A. C. Co. (Wheeler), Rutland, Vt.	Bone and Potash.....	Baltimore.....
17011	" " "	Electrical Dissolved Bone	Baltimore.....
17010	" " "	Royal Wheat Grower	Baltimore.

FERTILIZER ANALYSES.

11

No.	NITROGEN Calculated as AMMONIA.		POTASH K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17138	1.11	1.00	2.08	2.00	1.22	.....	8.44	8.00	\$17.14	\$15.60
17052	0.75	0.50	2.08	2.00	1.10	.....	8.18	8.00	15.34	13.60
17106	0.75	0.50	2.54	2.00	0.95	.....	8.20	8.00	15.76	13.60
17050	1.14	1.00	2.22	2.00	1.15	.....	8.43	8.00	17.36	15.60
17049	1.18	1.00	4.20	4.00	1.55	.....	7.95	8.00	19.08	17.60
17187	.....	.....	.....	.....	1.25	.....	13.38	14.00	12.29	12.60
17215	.....	.....	2.38	2.00	0.70	.....	10.08	10.00	11.59	11.00
17156	.....	.....	2.04	2.00	0.67	.....	12.35	12.00	13.33	12.80
9728	.....	.....	2.42	2.00	0.72	.....	9.53	10.00	11.14	11.00
17056	2.18	.00	2.02	2.00	1.39	.....	8.46	8.00	21.45	19.60
17048	1.21	1.00	1.16	1.00	0.90	.....	8.02	7.00	15.98	13.40
17105	1.19	1.00	0.98	1.00	1.30	.....	7.69	7.00	15.49	13.40
17084	.....	.....	3.22	3.00	1.32	.....	12.09	12.00	14.36	13.80
17137	.....	.....	5.26	5.00	1.82	.....	11.82	12.00	16.26	15.80
17020	2.39	2.00	2.14	2.00	4.50	.....	8.44	9.00	23.63	20.80
17202	2.12	2.00	2.32	2.00	3.02	.....	9.30	9.00	23.17	20.80
17189	.....	.....	2.10	2.00	0.92	.....	9.73	10.00	11.04	11.00
17104	.....	.....	.....	.....	2.17	.....	13.87	14.00	12.91	12.60
17051	.....	.....	.....	.....	1.70	.....	14.19	14.00	13.11	12.60
17256	2.27	2.00	2.12	2.00	1.60	.....	8.19	8.00	21.67	19.60
17068	.....	.....	3.02	3.00	1.30	.....	12.65	12.00	14.67	13.80
17011	.....	.....	.....	.....	1.77	.....	13.25	14.00	12.28	12.60
17010	1.18	1.00	2.01	2.00	1.42	.....	8.33	8.00	17.30	15.60

No	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17043	A. A. C. Co. (Wheeler), Rutland, Vt.	Wheat and Clover Fertilizer	Baltimore.....
17021	A. A. C. Co. (Zell), Baltimore, Md.	Ammoniated Bone Super-Phosphate.	Baltimore.....
17107	" " "	Dissolved Bone Phosphate	Melrose.....
17012	" " "	Dissolved Bone Phosphate	Baltimore.....
9750	" " "	Dissolved Bone Phosphate	Upperco.....
17000	" " "	Economizer Phosphate...	Baltimore.....
17110	" " "	Economizer Phosphate...	Silver Run.....
17022	" " "	Electric Phosphate.....	Baltimore.....
17109	" " "	Electric Phosphate.....	Melrose.....
17008	" " "	Hustler Phosphate.....	Baltimore.....
17023	" " "	Little Giant.....	Baltimore.....
17114	" " "	Little Giant.....	Taneytown.....
9740	Acme Guano Co., Baltimore, Md.	Harvest King....	Snow Hill.....
17135	The Armour Fertilizer Works, Baltimore, Md.	Ammoniated Bone with Potash.	Baltimore.....
17285	" " "	Acid Phosphate.....	Woodland..... (J. H. Covington.)
17085	" " "	Bone and Dissolved Bone with Potash.	Baltimore.....
17071	" " "	Bone, Blood and Potash..	Baltimore.....
17024	" " "	Bone Meal.....	Baltimore.....
17096	" " "	Cereal Phosphate.....	Baltimore.....
17046	" " "	Fruit and Root Crop, Special.	Baltimore.....
17045	" " "	Grain Grower.....	Baltimore.....
17282	" " "	Horse's Mixture.....	Greensboro..... (N. Horse of S.H.)
17072	" " "	Phosphate and Potash...	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17043	.....	.....	2.08	2.00	1.22	.....	10.22	10.00	\$11.52	\$11.00
17021	2.13	2.00	1.96	2.00	1.85	.....	8.70	8.00	21.66	19.60
17107	.....	.....	.....	.....	1.40	.....	14.35	14.00	13.20	12.60
17012	.....	.....	.....	.....	1.92	.....	13.50	14.00	12.53	12.60
9750	.....	.....	.....	.....	1.22	.....	13.88	14.00	12.73	12.60
17000	1.17	1.00	2.06	2.00	1.25	.....	8.45	8.00	17.38	15.60
17110	1.08	1.00	2.04	2.00	1.20	.....	8.60	8.00	17.16	15.60
17022	.....	.....	2.14	2.00	1.87	.....	10.43	10.00	11.90	11.00
17109	.....	.....	2.28	2.00	.85	.....	10.01	10.00	11.46	11.00
17008	1.16	1.00	3.02	3.00	1.55	.....	9.34	9.00	19.49	17.80
17023	1.19	1.00	1.04	1.00	1.20	.....	7.83	7.00	15.68	13.40
17114	1.19	1.00	1.14	1.00	1.30	.....	7.56	7.00	15.49	13.40
9740	.....	.....	3.76	6.50	1.58	.....	9.29	10.00	12.75	15.50
17135	2.73	3.00	2.26	2.00	1.65	.....	6.85	6.00	22.06	21.20
17285	.....	.....	.....	.....	.35	.....	16.77	16.00	15.16	14.40
17085	2.01	2.00	3.54	3.00	3.00	.....	9.11	9.00	23.71	21.80
17071	4.28	5.00	6.82	7.00	1.30	.....	9.19	8.00	35.49	36.60
17024	3.17	3.00	.....	.....	23.75*	24.00*	.....	.....	23.76	23.40
17096	.....	.....	.....	.....	.65	.....	10.08	10.00	9.20	9.00
17046	2.05	2.00	4.84	5.00	2.32	.....	7.82	8.00	23.35	22.60
17045	2.10	2.00	2.24	2.00	1.45	.....	8.70	8.00	21.66	19.60
17282	1.57	1.50	3.52	3.00	2.00	.....	9.68	8.00	22.22	18.60
17072	.....	.....	5.14	5.00	.20	.....	12.09	12.00	16.06	15.80

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17116	The Armour Fertilizer Works, Baltimore, Md.	Phosphate and Potash....	Hampstead.....
17061	" " "	Phosphate and Potash No. 1.	Baltimore.....
17041	" " "	Phosphate and Potash No. 2.	Baltimore.....
17042	" " "	Phosphoric Acid and Potash.	Baltimore.....
17059	" " "	Raw Bone Meal.....	Baltimore.....
17073	" " "	Royal Ammoniated Bone.	Baltimore.....
17290	" " "	Royal Ammoniated Bone.	Wye Mills..... (Chas. T. Rathell.)
17060	" " "	Special Mixture.....	Baltimore.....
17036	" " "	Star Phosphate.....	Baltimore.....
17277	" " "	Star Phosphate.....	Sykesville..... (James B. George.)
17097	" " "	Wheat and Clover.....	Locust Point.....
17086	" " "	Wheat, Corn and Oats Special.	Baltimore.....
17095	" " "	Wheat and Grass Special.	Baltimore.....
17087	" " "	Wheat Special.....	Baltimore.....
17103	C. A. Baile & Co., Medford, Md.	Bone Phosphate No. 3....	Medford.....
9729	Baltimore Fertilizer Co., Md.	Honest Acid Phosphate..	Baltimore.....
17178	" " "	Honest Bone Phosphate..	Dickerson.....
17190	" " "	Honest Bone and Potash.	Baltimore.....
17160	" " "	Honest Harvest.....	Baltimore.....
17121	" " "	Honest Homestead.....	Lineboro.....
17167	" " "	Honest Standard.....	Phoenix.....
17120	" " "	Old Honesty.....	Lineboro.....
17144	" " "	Old Honesty—Your Money's Worth.	Baltimore.....

FERTILIZER ANALYSES.

15

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17116	.....	.....	2.68	2.00	0.47	.....	10.46	10.00	\$13.03	\$11.00
17061	.....	.....	2.28	2.00	0.45	.....	10.12	10.00	12.29	11.00
17041	.....	.....	5.66	5.00	0.60	.....	8.75	8.00	13.66	12.20
17042	.....	.....	5.18	5.00	0.68	.....	10.40	10.00	14.68	14.00
17059	4.74	4.50	.....	.....	22.52*	22.00*	.....	.....	27.73	26.70
17073	1.23	1.00	5.38	4.00	1.15	.....	8.06	8.00	20.43	17.60
17290	1.16	1.00	4.86	4.00	0.70	.....	8.53	8.00	20.02	17.60
17060	0.55	0.50	1.20	1.00	0.65	.....	8.12	8.00	13.40	12.60
17036	.....	.....	.....	.....	0.15	.....	15.10	14.00	13.62	12.60
17277	.....	.....	.....	.....	0.42	.....	14.48	14.00	13.11	12.60
17097	.....	.....	5.24	5.00	1.05	.....	10.19	10.00	14.62	14.00
17086	1.06	1.00	1.32	1.00	1.87	.....	7.04	7.00	14.76	13.40
17095	1.37	1.00	5.60	5.00	0.47	1.00	7.61	7.00	20.40	17.80
17087	1.02	1.00	2.08	2.00	0.92	.....	7.61	8.00	15.66	15.60
17103	1.81	1.25	2.40	2.00	1.32	1.50	9.14	9.50	21.14	19.00
9729	.....	.....	.....	.....	0.58	.....	14.20	14.00	12.90	12.60
17178	0.32	0.25	1.42	1.00	0.37	.....	6.56	7.00	10.72	10.40
17190	.....	.....	2.24	2.00	0.27	.....	10.20	10.00	11.47	11.00
17160	1.28	1.00	2.51	2.50	0.62	.....	9.02	9.00	18.70	17.30
17121	1.47	1.50	2.38	2.00	0.50	.....	8.41	8.00	18.55	17.60
17167	1.31	1.25	3.70	3.00	0.52	.....	10.06	10.00	21.22	20.00
17120	0.51	0.50	2.48	2.00	0.23	.....	8.19	8.00	14.44	13.60
17144	0.51	0.50	2.18	2.00	0.35	.....	8.62	8.00	14.70	13.60

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
17193	Baltimore Pulverizing Co., Baltimore, Md.	Ammoniated Butchers' Bone.	Baltimore.....
17142	" " "	High Grade Wheat Com-pound.	Baltimore.....
17140	" " "	Penn. Excelsior Fertilizer	Baltimore.....
17141	" " "	Penn. Special Guano No. 1	Baltimore.....
17162	" " "	Pure Dissolved Animal Bone.	Baltimore.....
17143	" " "	Pure Raw Bone.....	Baltimore.....
17253	" " "	Royal Tomato Compound.	Rhodesdale.....
17192	" " "	Practical Fertilizer.....	Baltimore.....
17163	" " "	Royal Wheat Special.....	Baltimore.....
17075	" " "	Special Fall Mixture.....	Baltimore.....
17074	" " "	Special Spring Mixture..	Baltimore.....
17007	Baugh & Sons Co., Baltimore, Md.	16% Acid Phosphate.....	Baltimore.....
17272	" " "	16% Acid Phosphate.....	Rising Sun..... (Jno. B. Fassett.)
17025	" " "	Ammoniated Soluble Alkaline.	Baltimore.....
17026	" " "	Animal Bone and Potash Compound.	Baltimore.....
17006	" " "	Complete Animal Bone Fertilizer.	Baltimore.....
17168	" " "	Compound for all Crops..	Corbett.....
17251	" " "	Crop Grower for all Crops	Smithsburg.....
17297	" " "	Crop Grower for all Crops	Bartholow's..... (Wm. E. Murphy)
17252	" " "	Dissolved Animal Bone...	Sharpsburg... ..
17204	" " "	Dissolved Raw Bone.....	Forest Hill.....
17001	" " "	Double Eagle \$25.00 Phosphate.	Baltimore.....
17027	" " "	Excelsior Guano.....	Baltimore.....

FERTILIZER ANALYSES.

17

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17193	1.26	1.50	1.34	1.50	0.35	.....	11.05	9.00	\$19.78	\$18.30
17142	1.16	2.00	1.80	2.00	1.65	.....	8.89	8.00	17.77	19.60
17140	.....	.....	2.08	2.50	1.40	.....	9.65	10.00	11.05	11.50
17141	1.04	1.00	1.18	1.00	1.97	.....	9.35	8.00	17.35	14.60
17162	1.60	2.00	.....	.....	1.52	.....	14.00	14.00	23.81	24.80
17143	4.13	3.00	.....	.....	26.81*	45.00†	.....	.....	28.48	24.38
17253	1.77	2.00	4.64	2.00	0.95	.....	7.15	8.00	20.68	19.60
17192	1.18	0.50	1.40	1.00	1.67	.....	8.48	8.00	16.97	12.60
17163	.....	.....	3.84	4.00	0.92	1.50	13.19	10.50	15.89	13.75
17075	.....	.....	1.26	1.00	1.40	1.00	7.78	8.00	8.54	8.40
17074	.....	.....	0.72	1.00	1.85	1.00	9.32	8.00	9.48	8.40
17007	.....	.....	.....	.....	1.35	.....	14.67	16.00	13.47	14.40
17272	.....	.....	.....	.....	0.15	.....	17.08	16.00	15.40	14.40
17025	0.99	0.50	2.12	2.00	1.52	.....	8.17	8.00	16.49	13.60
17026	2.30	2.00	2.24	2.00	1.50	.....	8.25	8.00	21.94	19.60
17006	2.38	2.00	5.18	5.00	2.15	.....	8.08	8.00	25.26	22.60
17168	2.24	2.00	2.28	2.00	2.10	.....	7.89	8.00	21.55	19.60
17251	1.30	1.00	1.21	1.00	2.07	.....	8.21	8.00	17.09	14.60
17297	1.38	1.00	1.36	1.00	2.02	.....	9.87	8.00	19.53	14.60
17252	2.51	2.50	.....	.....	1.20	.....	14.69	13.00	28.15	25.60
17204	2.27	2.50	.....	.....	1.90	.....	14.97	13.00	27.80	25.60
17001	2.31	2.00	1.38	1.00	1.32	.....	7.88	8.00	20.61	18.60
17027	1.35	1.00	4.36	4.00	1.87	.....	8.42	8.00	20.61	17.60

* Total Phosphoric Acid.

† "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17194	Baugh & Sons Co., Baltimore, Md.	Export Bone with Potash.	Baltimore.....
17004	" " "	Farmers' Friend Guano..	Baltimore.....
17205	" " "	Fine Ground Bone.....	Lapidum.....
17195	" " "	Fine Ground Dried Fish..	Baltimore.....
17219	" " "	Fine Ground Tankage 8%.	Baltimore.....
17220	" " "	Fine Ground Tankage 9%.	Baltimore.....
17254	" " "	Fruit and Berry Grower..	Easton.....
17028	" " "	General Crop Grower....	Baltimore.....
17262	" " "	German Kainit.....	Union Mills..... (E. H. Flickinger.)
17166	" " "	High Grade Acid Phosphate.	Maple Grove.....
17003	" " "	High Grade Acid Phosphate.	Baltimore.....
17088	" " "	High Grade Bone and Potash.	Baltimore.....
17255	" " "	High Grade Potash Mixture.	Vienna.....
17295	" " "	High Grade Potash Mixture.	Bartholow's..... (Wm. E. Murphy.)
17063	" " "	McKenney's Compound..	Baltimore.....
17241	" " "	McKenney's No. 1 D....	Centreville.....
17002	" " "	Peninsula Grain Producer	Baltimore.....
17221	" " "	10% Peruvian Guano.....	Baltimore.....
17089	" " "	Phosphate and Potash, 10x5.	Baltimore.....
17139	" " "	Phosphate and Potash, 12x5.	Baltimore.....
17062	" " "	Phosphate and Potash, 12x3.	Baltimore.....
17029	" " "	Pure Dissolved Animal Bone.	Baltimore.....
17102	" " "	Pure Dissolved Animal Bone.	Taneytown.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17194	2.06	2.00	2.74	2.00	4.80	.....	9.31	11.00	\$24.07	\$23.20
17004	5.06	5.00	7.28	5.00	0.90	.....	6.59	6.00	35.79	32.20
17205	3.24	3.00	.....	.....	16.23*	33.00†	.....	.....	19.46	18.08
17195	10.38	10.00	.....	.....	6.15*	.....	.....	.....	34.83	30.00
17219	7.48	8.00	.....	.....	6.87*	.....	.....	.....	26.56	24.00
17220	8.98	9.00	.....	.....	3.81*	.....	.....	.....	29.23	27.00
17254	4.21	3.00	8.48	10.00	0.52	.....	8.63	8.00	35.89	31.60
17028	1.45	1.00	1.44	1.00	2.50	.....	7.65	8.00	17.42	14.60
17262	.....	.....	13.38	12.00	.....	.....	.....	.....	.....	.....
17166	.....	.....	.....	.....	0.82	.....	14.77	14.00	13.45	12.60
17003	.....	.....	.....	.....	0.72	.....	14.71	14.00	13.38	12.60
17088	.....	.....	4.44	4.00	0.97	.....	10.20	10.00	13.81	13.00
17255	.....	.....	3.96	4.00	1.10	.....	10.30	10.00	13.45	13.00
17295	.....	.....	5.88	5.00	1.15	.....	9.39	10.00	14.56	14.00
17063	1.83	1.60	2.66	2.50	3.95	4.00	9.07	8.00	22.44	20.10
17241	1.89	2.50	2.76	2.50	3.45	5.50	7.31	7.00	20.47	23.10
17002	1.36	1.00	2.48	2.00	1.52	.....	8.09	8.00	18.24	15.60
17221	8.60	10.00	1.88	.....	5.20	.....	7.76	.....	47.67	40.00
17089	.....	.....	4.96	5.00	0.80	.....	10.18	10.00	14.28	14.00
17139	.....	.....	4.20	5.00	0.80	.....	12.02	12.00	15.18	15.80
17062	.....	.....	3.12	3.00	0.42	.....	12.63	12.00	14.55	13.80
17029	2.78	2.50	.....	.....	5.20	.....	14.79	13.00	30.95	25.60
17102	2.90	2.50	.....	.....	4.90	.....	15.68	13.00	32.38	25.60

* Total Phosphoric Acid.

† "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. (and Sampler, when not the College.)
17099	Baugh & Sons Co., Baltimore, Md.	Raw Bone Meal.....	Baltimore.
17030	" " "	Soluble Alkaline Super Phosphate.	Baltimore.
17260	" " "	Special Mixture.....	Mt. Airy (Chas. E. Albaugh.)
17269	" " "	Special Mixture.....	Hagerstown..... (Miller Wingert.)
9743	" " "	Special Mixture.....	Fairlee..... (Thomas Hill.)
9744	" " "	Special Mixture.....	Fairlee..... (Thomas Hill.)
9745	" " "	Special Mixture.....	Fairlee..... (Thomas Hill.)
17164	" " "	Special Potato Manure...	Baltimore.....
17005	" " "	Wheat Fertilizer for Wheat and Grass.	Baltimore.....
17242	Beck-Walker Co., Chestertown, Md.	Good Drilling.	Chestertown
17243	" " "	Propagator Super Phosphate.	Chestertown
17244	" " "	Special Bone Mixture....	Chestertown
17280	" " "	12 X 5.....	Millington..... (P. A. M. Brooks)
17245	" " "	Try Me Super Phosphate.	Still Pond.....
17206	The Berg Co., Philadelphia, Pa.	Raw Bone.....	Fallston.....
17228	" " "	Standard Bone Manure...	North East.....
17229	" " "	Vigor Volo Bone and Potash.	Leslie.....
17122	A. D. Birely & Son, Ladiesburg, Md.	Ammoniated Bone Phosphate.	Westminster.....
17123	" " "	Crop Grower.....	Baltimore.....
9747	" " "	Crop Producer.....	Woodsboro.....
9730	Jas. Bonday, Jr., & Co., Baltimore, Md.	Old Reliable Brand Genuine German Kainit.	Baltimore.....
17169	S. B. Brodbeck, Brodbeck, Pa.	Brodbeck's Alkaline.....	Millers.....
17170	" " "	Brodbeck's Reliable.....	Millers.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17099	4.57	4.50	.....	.....	21.53*	21.50*	.....	.....	\$26.63	\$26.40
17030	.....	.....	2.40	2.00	1.30	.....	9.56	10.00	11.26	11.00
17260	2.55	2.50	3.62	3.50	2.72	.....	11.96	11.50	29.26	27.30
17269	1.43	2.00	5.04	5.00	0.80	.....	10.37	10.00	23.52	25.00
9743	1.79	1.60	2.68	2.50	3.58	4.00	8.84	8.00	21.88	20.10
9744	1.01	1.00	4.38	4.00	1.00	.....	11.46	11.00	22.57	21.20
9745	1.02	1.00	2.90	4.00	0.62	.....	11.22	11.00	20.69	21.20
17164	1.98	2.00	10.06	10.00	.95	.....	5.73	5.00	25.24	24.00
17005	2.35	2.00	2.28	2.00	1.51	.....	8.02	8.00	21.90	19.60
17242	.....	.....	5.24	5.00	1.22	.....	9.22	10.00	13.78	14.00
17243	2.03	2.00	2.72	2.50	2.00	.....	8.52	8.00	21.86	20.10
17244	1.02	1.00	2.44	2.00	1.52	.....	8.27	8.00	17.05	15.60
17280	.....	.....	5.06	5.00	1.27	.....	11.80	12.00	15.93	15.80
17245	0.67	0.50	3.02	3.00	1.70	.....	9.36	9.00	15.80	17.61
17206	4.45	3.00	.....	.....	23.59*	20.00*	.....	.....	27.50	21.00
17228	3.35	3.00	5.76	6.00	5.37	.....	7.89	8.00	30.78	27.60
17229	1.83	2.00	4.52	5.00	6.75	.....	8.79	.....	25.09	.....
17122	1.37	0.50	1.26	1.00	3.12	1.00	7.91	8.00	17.48	13.00
17123	.....	.....	1.58	2.00	1.85	1.00	9.02	9.00	10.07	10.30
9747	.....	.....	2.48	2.00	2.97	1.00	7.12	9.00	9.48	10.30
9730	.....	.....	12.29	12.00	.....	.....	.....	.....	.....	.....
17169	.....	.....	2.20	2.00	2.10	1.00	7.81	8.00	9.65	9.40
17170	0.77	0.50	1.96	2.00	3.07	1.00	8.77	8.00	16.79	14.00

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17181	Bryant Fertilizer Co., Alexandria, Va.	Ammoniated Dissolved Bone.	Potomac.....
9735	" " "	Bone and Potash.	Darnestown..... (W. E. Ward.)
17182	" " "	Formula E	Layhill.....
17180	" " "	Queen Ammoniated Bone.	Beallsville.....
17222	John S. Clark, Ellicott City, Md.	Standard Bone Phosphate.	Ellicott City.....
17239	Henry Cope & Co., Lincoln University, Pa.	Pure Bone Phosphate....	Colora.....
17231	" " "	Queen of Elk Valley.....	Rising Sun.....
17232	" " "	Raw Bone.....	Calvert.....
17233	" " "	Soluble Bone and Potash..	Rising Sun.....
17234	" " "	Wheat Grower and Com- plete Manure.	Calvert.....
17230	Josiah Cope & Co., Oxford, Pa.	Ammoniated Bone Phos- phate.	Rising Sun.....
17031	" " "	Try Me Bone Phosphate..	Baltimore.....
17223	J. W. Dorsey, Ellicott City, Md.	Mixture D Phosphate....	Ellicott City.....
17224	Dudley & Carpenter, Balti- more, Md.	Dissolved South Carolina Rock.	Baltimore.....
17076	" " "	Special Wheat Mixture...	Baltimore.....
17291	Edelen Bros., Baltimore, Md.	Special Wheat and Grass Mixture.	Park Hall..... (Geo. D. Hammett.)
17196	" " "	Special Wheat and Grass Mixture.	Baltimore.....
17246	T. W. Eliason, Chestertown, Md.	Our Special Dissolved Al- kaline Phosphate.	Chestertown.....
17124	Englar Bros. & Co., Lin- wood, Md.	No. 1 Ammoniated Bone Phosphate.	Linwood.....
17125	" " "	No. 2. Ammoniated Bone Phosphate.	Linwood.....
17235	Eureka Fertilizer Co., Per- ryville, Md.	Alkaline Bone and Potash.	Rising Sun.....
17236	" " "	Farmers' Favorite Bone Phosphate.	Rising Sun.....
9751	" " "	Fish, Bone and Potash...	Corbett.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17181	1.25	1.00	1.38	1.00	3.30	.....	8.30	8.00	\$17.66	\$14.60
9735	.....	.....	2.08	2.00	2.12	.....	6.98	10.00	8.78	11.00
17182	2.76	2.00	2.46	2.00	3.00	.....	8.03	8.00	24.34	19.60
17180	1.30	1.00	1.34	1.00	3.02	.....	8.60	8.00	18.08	14.60
17222	2.08	2.00	3.70	3.00	2.82	4.00	9.39	9.00	24.42	23.40
17239	2.03	2.00	3.90	2.00	2.15	.....	9.98	8.00	24.86	19.60
17231	1.77	2.00	3.22	8.00	0.78	.....	7.13	7.00	24.17	24.40
17232	4.86	4.00	.....	.....	23.67*	22.00*	.....	.....	28.78	25.20
17233	.....	.....	2.38	2.00	1.62	.....	9.47	10.00	11.22	11.00
17234	1.38	1.50	3.88	4.00	.02	.....	7.80	7.00	19.57	18.40
17230	1.18	1.00	3.00	3.00	1.42	.....	9.93	10.00	20.21	19.00
17031	2.35	2.50	4.04	4.00	1.30	2.00	12.60	8.00	29.08	22.40
17223	2.58	2.25	4.46	4.00	1.62	1.50	9.50	9.00	26.83	24.40
17224	.....	.....	.....	.....	1.20	.....	14.20	14.00	13.02	12.60
17076	.....	.....	2.68	3.00	1.47	.....	12.25	12.00	14.00	13.80
17291	1.38	1.00	2.78	2.00	0.55	.....	10.03	9.00	20.56	16.80
17196	1.50	1.00	2.30	2.00	1.07	.....	10.64	9.00	21.50	16.80
17246	.....	.....	1.58	1.50	0.22	.....	12.10	11.00	12.51	11.40
17124	2.03	2.00	2.28	1.50	2.10	.....	10.36	9.00	23.67	20.30
17125	1.08	1.00	2.82	2.40	1.27	.....	9.65	9.80	19.23	18.16
17235	.....	.....	2.18	2.00	3.50	.....	9.83	10.00	11.73	11.00
17236	1.14	2.00	1.40	2.00	2.02	.....	9.36	8.00	18.00	19.60
9751	0.63	0.50	1.09	1.00	3.18	.....	10.15	8.00	17.06	12.60

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17237	Eureka Fertilizer Co., Perryville, Md.	Grain and Grass Mixture.	Rising Sun.....
17238	" " "	Ground Bone.....	Rising Sun.....
17172	" " "	Imperial Bone Phosphate.	Corbett.....
17171	" " "	P. & P. Superior Phosphate.	Corbett.....
9748	W. S. Farmer & Co., Baltimore, Md.	B. & P. Phosphate.....	Baltimore.....
17198	" " "	Clyde Brand.....	Baltimore.....
17225	" " "	Davis' High Grade Potash Mixture.	Baltimore.....
17227	" " "	Dissolved South Carolina Bone.	Baltimore.....
17146	" " "	Harvest Queen Phosphate	Baltimore.....
17090	" " "	High Grade B. & P. Phosphate.	Baltimore.....
17197	" " "	Standard Phosphate.....	Baltimore.....
17078	" " "	Superior Potash Phosphate.	Baltimore.....
9741	Farmers and Planters Co., Salisbury, Md.	Fish Mixture.....	Salisbury.....
9742	" " "	General Crop Grower....	Salisbury.....
17131	Farmers' Fertilizer & Feed Co., Westminster, Md.	No. 1. Bone Phosphate..	Westminster.....
17128	" " "	No. 2 Bone Phosphate....	Westminster.....
17133	" " "	No. 3 Bone Phosphate....	Westminster.....
17130	" " "	X X Bone Phosphate....	Westminster.....
17278	" " "	Special Mixture.....	Hagerstown..... (Isaac Emmert)
17129	" " "	Carroll Bone Phosphate..	Westminster.....
17126	Farmers' Fer. Co. of Union Bridge, Union Bridge, Md.	No. 1 Bone Phosphate....	Union Bridge.....
17127	" " "	Farmers' Choice.....	Union Bridge.....
17132	" " "	Union Bridge Favorite...	Middleburg.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17237	0.94	1.00	1.70	2.00	2.10	.....	9.82	8.00	\$18.08	\$15.60
17238	3.89	3.00	.....	.....	25.84*	23.00*	.....	.....	27.17	22.80
17172	0.67	1.00	0.92	1.00	3.15	.....	10.26	8.00	17.17	14.60
17171	.....	.....	.....	.....	3.70	4.00	12.45	11.00	11.95	10.70
9748	.....	.....	2.32	2.00	0.98	.....	10.02	10.00	11.54	11.00
17198	1.13	1.00	2.34	2.00	1.40	.....	8.96	8.00	18.17	15.60
17225	.....	.....	4.94	5.00	1.00	.....	11.00	10.00	15.04	14.00
17227	.....	.....	.....	.....	0.95	.....	13.70	14.00	12.52	12.60
17146	1.42	1.25	3.52	3.00	1.48	....	9.01	9.00	20.60	18.80
17090	.....	.....	4.64	5.00	1.00	.....	10.43	10.00	14.23	14.00
17197	2.88	2.00	2.98	2.50	1.32	.....	9.80	10.00	26.79	22.50
17078	.....	.....	5.38	5.00	1.27	.....	11.75	12.00	16.21	15.80
9741	1.43	1.50	1.52	2.00	0.58	.....	11.01	8.00	20.68	17.60
9742	0.94	1.00	1.48	2.00	0.25	.....	12.53	10.00	20.38	18.00
17131	2.78	2.50	3.46	2.50	2.02	2.00	8.32	9.00	25.37	24.10
17128	1.95	2.00	3.01	2.50	1.55	1.00	9.08	9.00	22.33	21.70
17133	1.54	1.50	3.20	3.00	1.12	1.00	8.28	8.00	19.74	19.00
17130	1.09	1.00	3.54	3.00	1.15	1.00	9.16	9.00	19.35	18.20
17278	2.29	2.00	5.18	5.00	1.22	1.00	11.60	11.00	28.75	26.60
17129	0.91	0.50	3.00	2.00	1.40	1.00	6.81	7.00	15.37	12.80
17126	1.13	1.25	3.18	2.25	1.07	.....	8.14	8.00	17.90	16.85
17127	0.56	0.25	3.44	2.50	0.85	.....	7.41	8.00	14.91	13.10
17132	0.82	1.00	3.52	2.00	0.75	.....	9.02	9.00	17.92	16.80

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17183	Fogle & Miller, Woodsboro, Md.	Crop Grower.....	Woodsboro
17184	" " "	Maryland Alkaline.....	Woodsboro
17118	" " "	Maryland Alkaline.....	Woodsboro
17185	" " "	Maryland Plow Brand....	Woodsboro
17186	" " "	Maryland Sun Guano.....	Woodsboro
17119	" " "	Maryland Sun Guano.....	Middleburg
17207	Forwood, Preston, Gorrell & Dashiell, Bel Air, Md..	Planters' Favorite.....	Bel Air.....
17148	J. W. Freeman, Great Mills, Md.	Crop Grower.....	Baltimore.....
17201	T. H. Gill, Avalon Va.	Try Me Fertilizer.....	Baltimore.....
9731	Griffith & Turner Co., Baltimore, Md.	Ammoniated Alkaline Plant Food.	Baltimore.....
17149	" " "	Ammoniated Butchers' Bone Phosphate.	Baltimore.....
9732	" " "	Ammoniated Bone Phosphate.	Baltimore.....
17147	" " "	Special Mixture.....	Baltimore.....
17032	Griffith & Boyd Co., Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore.....
17044	" " "	Ammoniated Soluble Bone	Baltimore.....
17200	" " "	Buyers' Mixture.....	Baltimore.
17271	" " "	Buyers' Mixture.....	Worton..... (B. F. Rash)
17100	" " "	Cereal Bone Plant Food..	Baltimore.....
17226	" " "	Farmers' Potato Manure.	Baltimore.....
17047	" " "	Fish, Bone and Potash, ..	Baltimore.....
17199	" " "	Harvest Queen Phosphate.	Baltimore.....
17077	" " "	High Grade Acid Phosphate.	Baltimore.....
17174	" " "	High Grade Acid Phosphate.	White Hall.....

No.	NITROGEN, Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17183	2.17	2.00	2.80	2.00	2.92	.....	8.03	8.00	\$22.29	\$19.60
17184	.....	.....	2.00	2.00	2.37	1.00	9.33	10.00	10.87	11.20
17118	.....	.....	2.10	2.00	2.70	1.00	9.35	10.00	11.06	11.20
17185	1.14	1.00	1.63	2.00	2.40	1.00	8.85	8.00	17.82	16.00
17186	0.89	0.50	1.36	1.00	1.57	.....	9.22	8.00	16.61	12.60
17119	0.78	0.50	1.02	1.00	3.45	1.00	8.41	8.00	15.61	13.00
17207	2.30	2.00	2.03	1.50	0.67	.....	8.19	8.00	21.33	19.10
17148	1.38	1.00	1.26	1.00	0.90	1.50	8.15	8.00	16.92	15.20
17201	2.15	2.00	2.46	2.00	1.05	.....	10.66	9.00	24.27	20.80
9731	1.09	1.00	1.98	1.50	2.62	1.00	7.71	6.50	16.64	13.70
17149	1.11	1.25	2.38	1.50	1.90	1.00	9.50	9.00	18.98	17.70
9732	2.32	2.50	3.70	1.50	1.92	1.00	7.44	10.00	22.68	23.90
17147	0.46	0.50	2.28	2.00	2.02	1.00	9.68	8.00	16.55	14.00
17032	1.72	2.00	2.01	2.00	1.80	.....	9.60	8.00	21.13	19.60
17044	0.96	1.00	2.00	2.00	2.52	.....	8.98	7.00	17.63	14.40
17200	.....	.....	3.58	5.00	1.61	.....	12.02	12.00	14.72	15.80
17271	.....	.....	4.12	5.00	1.75	.....	12.15	12.00	15.41	15.80
17100	1.19	1.00	2.36	2.00	2.17	.....	8.14	8.00	17.76	15.60
17226	1.06	1.00	3.20	9.00	2.42	.....	8.21	8.00	23.26	22.60
17047	1.59	1.75	2.90	3.00	2.62	.....	7.77	7.00	19.63	18.40
17109	1.19	1.25	3.62	3.00	2.30	.....	9.10	9.00	20.22	18.80
17077	.....	.....	.....	.....	0.35	1.00	15.61	14.00	14.12	12.80
17174	.....	.....	.....	.....	1.15	.....	13.93	14.00	12.77	12.60

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17064	Griffith & Boyd Co., Baltimore, Md.	Original Super-Phosphate	Baltimore....
17040	" " "	Peerless Fertilizer.....	Baltimore.....
17240	" " "	Potash Manure.....	Colora.....
17175	" " "	Pure Dissolved Animal Bone.	White Hall
17038	" " "	Pure Dissolved Animal Bone.	Baltimore.....
17098	" " "	Royal Potash Guano.....	Baltimore.....
17208	" " "	Soft Ground Bone Meal..	Emmorton.....
17284	" " "	Special Alkaline.....	Cecilton
17035	" " "	Special Alkaline Bone Mixture.	(L. W. Davis.) Baltimore.....
17173	" " "	Special Grain Grower....	Sparks
17037	" " "	Special Guano.....	Baltimore.....
17209	" " "	Spring Crop Grower.....	Emmorton.....
17150	" " "	Stable Manure Substitute	Baltimore.....
17101	" " "	Valley Fertilizer.....	Baltimore
17039	" " "	X. X. Potash Manure....	Baltimore
17381	Hampstead Fertilizer Co., Hampstead, Md.	Grain and Grass Grower..	Hampstead
17382	" " "	Honesty	Hampstead
17383	" " "	Standard	Hampstead
17519	Hanway & Barnes, Bel Air, Md.	Ammoniated Bone Phosphate.	Bel Air.....
17474	S. M. Hess & Bro., Philadelphia, Pa.	Ammoniated Bone Super-Phosphate.	Gaithersburg
17379	" " "	Farmers' Cereal King....	Baltimore.....
17533	" " "	Ground Bone.....	Baltimore.....
17322	" " "	Keystone Bone Phosphate	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17064	.....	.....	.....	.....	2.20	.....	12.70	12.00	\$11.87	\$10.80
17040	0.49	0.35	2.48	2.00	1.80	.....	9.45	8.00	16.50	13.00
17240	.....	.....	4.40	5.00	2.14	.....	10.52	10.00	14.73	14.00
17175	2.68	2.50	.....	.....	2.85	.....	10.87	10.00	24.90	22.00
17038	1.38	2.50	.....	.....	2.85	.....	6.83	10.00	14.86	22.00
17098	1.38	1.00	3.94	4.00	1.85	.....	8.32	8.00	20.18	17.60
17208	3.86	3.00	.....	.....	12.90*	11.00*	.....	.....	19.32	15.60
17284	.....	.....	2.86	3.00	0.62	.....	13.02	12.00	14.70	13.80
17035	.....	.....	2.88	3.00	0.82	.....	13.75	12.00	15.42	13.80
17173	.....	.....	2.12	2.00	1.95	.....	10.23	10.00	11.72	11.00
17037	2.29	2.00	5.20	5.00	1.67	.....	8.38	8.00	25.09	22.60
17209	1.73	2.00	4.32	4.50	1.97	.....	7.61	6.00	21.16	19.70
17150	3.07	3.50	4.16	4.00	1.82	.....	6.84	5.00	25.38	24.00
17101	0.56	0.50	3.02	3.00	2.12	.....	7.81	8.00	15.48	14.60
17039	.....	.....	4.78	5.00	2.52	.....	10.53	10.00	14.76	14.00
17381	1.45	1.50	2.42	2.00	1.12	.....	8.28	8.00	18.61	17.60
17382	0.51	0.50	2.42	2.00	0.50	.....	8.20	8.00	14.50	13.60
17383	1.38	1.25	3.02	3.00	0.85	.....	10.45	10.00	21.42	20.00
17519	2.34	2.00	4.30	4.00	1.22	.....	8.06	8.00	23.82	21.60
17474	2.01	2.00	2.02	2.00	1.62	6.00	8.23	8.00	20.59	22.00
17349	.....	.....	3.46	3.00	1.35	.....	11.86	12.00	14.40	13.80
17533	4.02	4.00	.....	.....	21.22*	20.00*	.....	.....	24.79	24.00
17322	1.13	1.00	1.02	1.00	1.45	2.00	8.40	8.00	16.20	15.40

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
17346	S. M. Hess & Bro., Philadelphia, Pa.	Peerless Phosphate.....	Baltimore.....
17481	" " "	Soluble Bone.....	Baltimore.....
17556	" " "	Soluble Bone and Potash.	Leslie.....
17347	" " "	Special Compound.....	Baltimore.....
9738	" " "	Wheat and Grass Manure	Baltimore.....
17483	Home Fertilizer Co., Baltimore, Md.	Boykin's Alkaline Bone..	Baltimore.....
17317	" " "	Boykin's Cereal Fertilizer	Baltimore.....
17482	" " "	Boykin's High Grade Acid Phosphate.	Baltimore.....
17427	" " "	Farmers' Choice.....	Baltimore.....
17426	" " "	Matchless Guano.....	Baltimore.....
17444	" " "	Special Alkaline Mixture.	Owing's Mills.....
17384	W. H. Hood, Mt. Airy, Md.	Hood's Special Mixture..	Mt. Airy.....
17275	The Hubbard Fertilizer Co., Baltimore, Md.	Alkaline.....	Earleville..... (R. A. Duhamell)
17486	" " "	Alkaline.....	Baltimore.....
17373	" " "	Climax Bone Super-Phosphate.	Baltimore.....
17371	" " "	Columbia Gem Phosphate.	Baltimore.....
17534	" " "	Dissolved Animal Bone and Potash.	Baltimore.....
17487	" " "	High Grade Soluble Tennessee Phosphate.	Baltimore.....
17488	" " "	Import Bone Meal.....	Baltimore.....
17428	" " "	Oriental Phosphate for Wheat and Grass.	Baltimore.....
17445	" " "	Oriental Phosphate for Wheat and Grass.	Green Mount.....
17535	" " "	Royal Ensign for Early Market Vegetables.	Baltimore.....
17303	" " "	Soluble Bone and Potash.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17346	.....	.....	5.32	5.00	1.47	1.00	12.01	12.00	\$16.42	\$16.00
17481	.....	.....	.....	.....	1.58	1.00	13.13	14.00	12.14	12.80
17556	.....	.....	2.30	2.00	0.75	1.00	9.58	10.00	11.07	11.20
17347	1.06	1.00	4.06	4.00	1.00	1.00	8.77	8.00	19.22	18.00
9738	1.33	1.00	2.10	2.00	1.32	1.00	8.95	8.00	18.69	16.00
17483	.....	.....	2.22	2.00	0.92	1.00	10.83	10.00	12.15	11.20
17317	2.10	2.00	2.58	2.00	0.72	.....	10.12	8.00	23.41	19.60
17482	.....	.....	.....	.....	1.50	.....	13.90	14.00	12.81	12.60
17427	1.19	1.00	4.52	4.00	0.80	.....	7.46	7.00	18.55	16.40
17426	2.03	2.00	3.00	4.00	2.82	.....	8.10	8.00	21.97	21.60
17444	.....	.....	5.14	5.00	1.05	1.00	10.23	10.00	14.56	14.20
17384	1.13	1.00	2.26	2.00	2.55	.....	8.67	9.00	18.20	16.80
17275	.....	.....	5.98	3.00	1.62	.....	11.35	12.00	16.52	13.80
17486	.....	.....	5.60	5.00	1.57	.....	11.47	12.00	16.23	15.80
17373	1.02	1.00	4.12	4.00	1.10	.....	8.08	7.00	18.34	16.40
17371	0.96	0.50	1.72	1.00	1.90	.....	8.30	8.00	16.28	12.60
17534	1.18	1.00	2.54	2.00	0.95	.....	7.85	8.00	16.88	15.60
17487	.....	.....	.....	.....	0.70	.....	14.78	14.00	13.44	12.60
17488	3.86	3.50	.....	.....	19.72*	40.00†	.....	.....	23.41	21.51
17428	1.14	1.00	1.36	1.00	1.08	.....	8.20	8.00	16.19	14.60
17445	1.07	1.00	1.84	1.00	1.22	.....	9.14	8.00	17.58	14.60
17535	2.70	3.00	4.94	4.00	0.98	.....	7.34	8.00	24.94	25.60
17303	.....	.....	2.30	2.00	0.80	.....	10.53	10.00	11.94	11.00

* Total Phosphoric Acid. † "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
17374	The Hubbard Fertilizer Co., Baltimore, Md.	Special Mixture of Bone and Potash.	Baltimore.
17485	" " "	Standard Bone Super-Phosphate.	Baltimore.
17372	" " "	Wheat Growers' Jewel...	Baltimore.
17431	M. P. Hubbard & Co., Baltimore, Md.	Celebrated Bone Phosphate.	Baltimore.
17432	" " "	Excelsior Bone Phosphate	Baltimore.
17484	" " "	Farmers' Acme Fertilizer.	Baltimore.
17563	" " "	Fish, Bone and Potash...	Childs.
17287	" " "	Harvest King Phosphate.	Cordova. (Aug. Huntman.)
17429	" " "	Harvest King for Wheat and Grass.	Baltimore.
17408	" " "	Old Economy.	Baltimore.
17409	" " "	Soluble Bone and Potash.	Baltimore.
17430	" " "	Soluble S. C. Bone Phosphate.	Baltimore.
17348	" " "	Special Potato and Tomato Fertilizer.....	Baltimore.
17572	Wilbur W. Hubbard, Chestertown, Md.	Bone Special Super-Phosphate.	Barclay.
17573	" " "	Our Imperial Compound..	Barclay.
17574	" " "	Our Victor Fertilizer.	Barclay.
17575	" " "	Pennington's Mixture....	Chestertown.
17293	" " "	12-5	Chestertown. (W. S. Collins.)
17490	Independent Fertilizer Co., Baltimore, Md.	Common Sense Fertilizer.	Baltimore.
17489	" " "	Grain and Grass King....	Baltimore.
17491	Lister's Agricultural Chemical Works, Newark, N. J.	Alkaline Bone.....	Baltimore.
17433	" " "	Alkaline Bone, No. 1	Baltimore.
17452	" " "	Bone Meal.....	Parkton.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17374	.....	.....	4.16	4.00	1.62	.....	10.27	10.00	\$13.72	\$13.00
17485	2.73	2.00	4.32	3.00	1.57	.....	7.47	8.00	24.83	20.60
17372	1.67	1.50	3.02	2.00	2.17	.....	8.41	9.00	20.66	18.80
17431	1.84	2.00	2.22	2.00	0.98	.....	9.09	8.00	20.88	19.60
17432	1.43	1.00	2.48	2.00	0.42	.....	9.83	8.00	20.17	15.60
17484	2.13	2.00	2.16	2.00	0.55	.....	7.93	7.00	20.42	18.40
17563	0.39	0.25	1.44	1.00	0.40	.....	6.57	6.00	11.04	9.20
17287	1.16	1.00	3.06	3.00	0.25	.....	10.25	9.00	20.10	17.80
17429	1.06	1.00	3.00	3.00	0.18	.....	11.42	9.00	21.01	17.80
17408	0.72	0.50	1.44	2.00	0.55	.....	9.11	8.00	15.47	13.60
17409	.....	.....	2.52	2.00	0.18	2.00	10.48	10.00	11.99	11.40
17430	.....	.....	.....	.....	0.35	.....	14.60	14.00	13.21	12.60
17348	2.61	2.00	3.52	5.00	1.20	.....	9.37	7.00	25.68	21.40
17572	1.31	1.25	3.00	3.00	0.78	.....	8.80	9.00	19.11	18.80
17573	1.93	1.75	2.90	3.00	0.58	.....	9.94	8.00	22.78	19.60
17574	1.02	1.00	2.62	2.00	0.58	.....	8.11	8.00	16.66	15.60
17575	0.29	0.50	3.22	3.00	0.25	.....	7.88	7.00	13.94	13.40
17293	.....	.....	6.10	5.00	0.55	.....	11.47	12.00	16.53	15.80
17490	0.67	0.50	2.00	2.00	0.58	.....	8.94	8.00	15.64	13.60
17489	1.21	1.00	0.54	3.00	1.80	.....	10.98	10.00	19.28	19.00
17491	.....	.....	2.50	2.00	0.82	.....	9.52	10.00	11.23	11.00
17433	.....	.....	4.60	5.00	0.98	.....	12.62	12.00	16.16	15.80
17452	4.86	3.25	.....	.....	21.28*	23.00*	.....	.....	27.35	23.55

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17536	Lister's Agricultural Chemical Works, Newark, N. J.	Celebrated Ground Bone Acidulated.	Baltimore.....
17304	" " "	"G" Brand Fertilizer....	Baltimore.....
17362	" " "	Harvest Queen Phosphate	Baltimore.....
17520	" " "	Pure Bone Super-Phosphate.	Dublin.....
17446	" " "	Special Crop Producer....	Boring.....
17349	" " "	Special Wheat Fertilizer.	Baltimore.....
17453	" " "	Special Fertilizer for Wheat and Rye.	Parkton.....
17305	" " "	Standard Pure Bone Super-Phosphate of Lime.	Baltimore.....
17434	" " "	U. S. Phosphate.....	Baltimore.....
17331	D. B. Martin Co., Philadelphia, Pa.	Acid Phosphate.....	Baltimore.....
17557	" " "	Claremont Vegetable Grower.	Leslie.....
17537	" " "	Corn and Cereal Special..	Ellicott City.....
17330	" " "	Crop Producer.....	Baltimore.....
17479	" " "	Crop Producer.....	Silver Spring.....
17333	" " "	Dissolved Organic Compound.	Baltimore.....
17410	" " "	Genuine German Kainit..	Baltimore.....
17325	" " "	One, Eight and Four.....	Baltimore.....
17270	" " "	One, Eight and Four.....	Two Johns..... (B. F. Edegell.)
17283	" " "	One, Eight and Four.....	East Newmarket.. (H. B. Hicks.)
17286	" " "	One, Eight and Four.....	East Newmarket.. (W. A. Henry.)
17454	" " "	One, Eight and Four.....	Cockeysville.....
17538	" " "	Potash and Soluble Bone.	Baltimore.....
17368	" " "	Pure Animal Bone and Potash.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17536	4.06	3.25	.....	.....	12.96*	12.00*	.....	.....	\$19.96	\$16.95
17304	1.40	1.00	3.88	4.00	0.90	.....	8.80	8.00	20.50	17.60
17362	1.93	1.50	2.08	2.00	2.62	.....	8.81	9.00	21.42	18.80
17520	3.04	3.00	2.04	2.00	2.28	.....	8.61	8.00	25.44	23.60
17446	1.09	1.00	1.14	1.00	0.98	.....	7.80	7.00	15.25	13.40
17349	2.30	2.00	3.28	3.00	2.00	.....	8.22	8.00	23.14	20.60
17453	2.00	2.00	2.06	2.00	1.62	.....	8.04	8.00	20.30	19.60
17305	3.04	3.00	2.10	2.00	2.45	.....	8.36	9.00	25.27	24.80
17434	1.48	1.25	2.01	2.00	1.68	.....	8.14	8.00	18.37	16.60
17331	.....	.....	.....	.....	0.38	.....	15.75	14.00	14.26	12.60
17557	3.41	3.00	5.03	5.00	2.17	.....	8.35	7.00	29.56	25.40
17537	2.03	2.00	2.98	2.00	2.45	.....	8.67	8.00	22.48	19.60
17330	1.36	1.25	.....	.....	3.18	.....	9.95	10.00	18.65	17.00
17479	1.43	1.25	.....	.....	3.05	.....	9.88	10.00	18.80	17.00
17333	1.42	1.25	2.46	2.00	2.05	.....	8.12	9.00	18.70	17.80
17410	.....	.....	12.68	12.00	.....	.....	.....	.....	.....	.....
17325	1.30	1.00	4.32	4.00	2.30	.....	8.19	8.00	20.27	17.60
17270	1.21	1.00	4.30	4.00	2.20	.....	8.43	8.00	20.14	17.60
17283	1.37	1.00	3.90	4.00	1.75	.....	9.47	8.00	21.44	17.60
17286	1.12	1.00	4.04	4.00	1.90	.....	7.27	8.00	18.00	17.60
17454	1.19	1.00	3.	4.00	2.42	.....	8.16	8.00	19.36	17.60
17538	.....	.....	3.66	3.00	0.35	.....	11.05	12.00	13.68	13.80
17368	2.29	2.00	2.26	2.50	14.25	.....	7.53	.....	26.16	.....

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17413	The D. B. Martin Co., Philadelphia, Pa.	Pure Dissolved Animal Bone.	Baltimore.....
17411	" " "	Pure Ground Bone.....	Baltimore.....
17521	" " "	Pure Ground Bone.....	Aberdeen.....
17412	" " "	Pure Raw Bone Meal....	Baltimore.....
17386	" " "	Special Wheat and Grass Mixture.	Sykesville.....
17387	" " "	Sure Grower.....	Lineboro.....
17391	F. Mehring, Bruceville, Md.	Dissolved Raw Bone.....	Bruceville.....
17577	" " "	Emmert's Half-and-Half.	Williamsport.....
17389	" " "	General Crop Grower....	Taneytown.....
17388	" " "	Potash and Phosphoric Acid.	Bruceville.....
17390	" " "	Twenty Six Dollar Phosphate.	Bruceville.....
17318	The Miller Fertilizer Co., Baltimore, Md.	Ammoniated Dissolved Bone.	Baltimore.....
17435	" " "	Buyers' Mixture.....	Baltimore.....
17332	" " "	Clinch Phosphate, Rock and Potash.	Baltimore.....
17367	" " "	Club Brand.....	Baltimore.....
17516	" " "	Dissolved Raw Bone.....	Baltimore.....
17517	" " "	Ground Bone.....	Baltimore.....
17369	" " "	Harvest Queen Phosphate.	Baltimore.....
17306	" " "	Hustler Phosphate.....	Baltimore.....
17447	" " "	Potato and Vegetable Grower.	Fowlesburg.....
17392	" " "	South Carolina Rock....	Lineboro.....
17436	" " "	Special Tomato Grower..	Baltimore.....
17324	" " "	Standard Phosphate.....	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17413	2.35	2.00	.....	.....	5.62	.....	10.53	12.00	\$24.29	\$22.40
17411	2.54	2.00	.....	.....	26.55*	22.90*	.....	.....	23.55	19.74
17521	3.02	2.00	.....	.....	27.64*	22.90*	.....	.....	25.64	19.74
17412	5.05	4.00	.....	.....	23.03*	21.00*	.....	.....	23.97	24.60
17386	1.19	1.00	1.04	1.00	2.57	1.00	7.46	8.00	15.73	15.00
17387	1.25	1.00	1.03	1.00	1.93	.....	8.19	8.00	16.70	14.60
17391	2.01	2.00	.....	.....	1.90	1.00	15.64	14.00	27.57	25.20
17577	0.89	0.75	2.03	2.00	1.90	1.00	14.10	13.00	23.32	21.00
17389	1.19	1.00	1.60	1.25	2.95	1.00	10.69	11.00	20.37	18.85
17388	.....	.....	1.92	2.00	1.73	1.00	12.07	12.00	13.14	13.00
17390	1.59	1.50	1.56	1.50	4.25	1.00	11.02	11.00	22.34	21.10
17318	3.50	2.00	1.54	2.00	0.62	1.50	8.15	8.00	25.57	20.20
17435	.....	.....	4.64	5.00	0.45	.....	10.75	10.00	14.41	14.00
17332	.....	.....	2.22	2.00	0.93	2.00	10.54	10.00	11.91	11.40
17367	0.73	0.50	2.16	2.00	0.53	1.50	8.30	8.00	15.47	14.20
17516	2.63	2.50	.....	.....	3.50	2.00	10.43	11.00	24.70	24.00
17517	3.81	3.00	.....	.....	24.55*	22.50*	.....	.....	26.16	22.50
17369	1.55	1.25	2.77	2.75	1.40	1.50	8.64	9.00	19.90	19.15
17306	1.26	1.00	1.10	1.00	0.62	1.50	7.06	8.00	14.86	15.20
17447	2.35	2.00	3.16	4.00	0.90	1.50	8.19	8.00	22.75	22.20
17392	.....	.....	.....	.....	0.95	.....	14.29	14.00	13.05	12.60
17436	2.01	2.00	2.22	2.00	0.55	1.50	8.34	8.00	20.49	20.20
17324	3.07	3.00	3.02	3.00	0.95	1.50	7.91	8.00	25.17	25.20

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
17492	The Miller Fertilizer Co., Baltimore, Md.	W. G. Phosphate.....	Baltimore.....
17179	Nicodemus and Grimes, Monrovia, Md.	Sullivan's S. S. S.....	Monrovia.....
17335	G. Ober & Sons Co., Baltimore, Md.	Dissolved Animal Bone...	Baltimore.....
17493	" " "	Dissolved Animal Bone and Potash.	Baltimore.....
17334	" " "	Dissolved Bone Phosphate.	Baltimore.....
17316	" " "	Dissolved Bone Phosphate and Potash.	Baltimore.....
17366	" " "	Farmers' Mixture.....	Baltimore.....
17448	" " "	Farmers' Standard Ammoniated Phosphate.	Hampstead.....
17455	" " "	Fish, Bone and Potash Mixture.	Cockeysville.....
17539	" " "	Fish and Potash Fertilizer.	Baltimore.....
17307	" " "	Independent Ammoniated Super-Phosphate.	Baltimore.....
17588	" " "	Pure Bone Meal.....	Baltimore.....
17589	" " "	Pure Raw Bone Meal....	Baltimore.....
9752	" " "	Special Plant Food.....	Ellicott City.....
17414	" " "	Standard Potash Compound.	Baltimore.....
17274	" " "	Standard Potash Compound.	Church Hill..... (W. H. Milby.)
17350	Patasco Guano Co., Baltimore, Md.	Alkaline Phosphate.....	Baltimore.....
17308	" " "	Baltimore Soluble Phosphate.	Baltimore.....
17336	" " "	Blood, Bone and Potash..	Baltimore.....
17337	" " "	Coon Brand Guano.....	Baltimore.....
17378	" " "	Grain and Grass Producer.	Baltimore.....
17540	" " "	Grange Mixture.....	Baltimore.....
17438	" " "	High Grade Bone and Potash.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17492	0.67	0.50	1.06	1.00	0.62	1.50	7.16	7.00	\$12.58	\$12.00
17179	2.12	2.00	2.04	2.00	1.05	.....	8.45	9.00	21.08	20.80
17335	3.02	3.00	.....	.....	2.32	.....	12.60	10.00	28.13	24.00
17493	3.43	2.50	4.02	3.00	3.40	.....	12.26	10.00	33.81	25.00
17334	.....	.....	.....	.....	0.25	.....	15.04	14.00	13.59	12.60
17316	.....	.....	2.10	2.00	0.12	.....	11.48	10.00	12.45	11.00
17366	1.06	1.00	2.30	2.00	1.16	.....	10.04	9.00	19.05	16.80
17448	2.22	2.00	2.48	2.00	0.65	.....	10.72	9.00	24.48	20.80
17455	3.04	3.25	3.66	3.50	0.48	.....	9.72	8.00	27.67	26.10
17539	1.84	2.00	2.16	2.00	0.82	.....	11.76	9.00	23.96	20.80
17307	1.48	1.00	1.82	1.00	1.60	.....	8.74	8.00	18.87	14.60
17588	3.16	3.00	.....	.....	23.59*	22.00*	.....	.....	23.63	22.20
17589	5.02	4.00	.....	.....	22.57*	21.00*	.....	.....	28.60	24.60
9752	2.06	2.00	5.38	5.00	0.32	.....	10.76	9.00	26.66	23.80
17414	.....	.....	4.52	5.00	0.32	.....	13.23	12.00	16.49	15.80
17274	.....	.....	5.18	5.00	0.05	.....	13.05	12.00	16.94	15.80
17350	.....	.....	3.04	3.00	1.15	.....	11.97	12.00	14.04	13.80
17308	.....	.....	2.22	2.00	1.80	.....	11.35	11.00	12.80	11.90
17336	0.89	0.50	2.20	2.00	1.30	.....	8.31	8.00	16.25	13.60
17337	1.16	1.00	3.00	3.00	0.98	.....	9.33	9.00	19.23	17.80
17378	1.13	1.00	3.70	4.00	0.80	.....	8.90	8.00	19.22	17.60
17540	2.34	2.00	2.58	2.00	1.75	.....	7.83	8.00	22.04	19.60
17438	.....	.....	5.04	5.00	0.90	.....	11.52	11.00	15.59	14.90

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17541	Patapsco Guano Co., Baltimore, Md.	Peninsula Potash Mixture.	Baltimore.....
17281	" " "	Peninsula Potash Mixture.	Cordova..... (Wm. F. Jump.)
17542	" " "	Phospho-Potash.....	Baltimore.....
17437	" " "	Pure Dissolved S. C. Bone.	Baltimore.....
17543	" " "	Pure Ground Bone.....	Baltimore.....
17352	" " "	Sea Gull Guano.....	Baltimore.....
17351	" " "	Soluble Bone and Potash.	Baltimore.....
17495	" " "	Special Wheat Compound.	Baltimore.....
17323	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Beckley's Bone Mixture..	Baltimore.....
17449	" " "	Dissolved Bone Phosphate.	Owings Mills.....
17499	" " "	Farmers' Favorite.....	Baltimore.....
17415	" " "	Farmers' H. G. Bone and Potash.	Baltimore.....
17496	" " "	Insula Guano for all Crops.	Baltimore.....
17473	" " "	Levering's Ammoniated Bone.	Germantown.....
17309	" " "	Levering's Ammoniated Bone.	Baltimore.....
17558	" " "	Levering's Excelsior Guano.	Leslie.....
17353	" " "	Levering's Harvest Queen	Baltimore.....
17354	" " "	Levering's Standard.....	Baltimore.....
17288	" " "	Levering's Standard.....	Cordova..... (Aug. Huntman.)
17395	" " "	Peerless Phosphate.....	Mt. Airy.....
9734	" " "	Peerless Phosphate.....	Darnestown..... (W. E. Ward.)
9733	" " "	Peerless Phosphate.....	Darnestown..... (W. E. Ward.)
17310	" " "	Piedmont Economy.....	Baltimore.....

FERTILIZER ANALYSES.

41

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17541	.....	.....	5.08	5.00	0.55	.....	12.15	12.00	\$16.13	\$15.80
17281	.....	.....	5.10	5.00	1.17	.....	12.30	12.00	16.40	15.80
17542	.....	.....	3.34	3.00	0.45	1.00	7.60	6.00	10.27	8.60
17437	.....	.....	.....	.....	1.15	1.00	14.37	14.00	13.16	12.80
17543	4.76	4.50	.....	.....	20.58*	45.00†	.....	.....	26.63	25.88
17352	1.18	1.00	1.01	1.00	1.80	.....	8.16	8.00	16.24	14.60
17351	.....	.....	2.14	2.00	1.42	.....	10.44	10.00	11.80	11.00
17495	2.32	2 25	2.84	2.50	3.52	5.00	10.11	9.00	25.66	24.30
17323	1.76	1 50	.....	.....	0.58	.....	14.87	14.00	25.11	22.80
17449	.....	.....	1.86	1.00	0.10	.....	11.15	10.50	11.92	10.45
17499	1.02	1.00	4.96	4.00	1.48	.....	8.32	8.00	19.61	17.60
17415	.....	.....	2.08	2.00	0.40	.....	9.12	10.00	10.37	11.00
17496	0.82	0.50	4.42	2.00	0.58	.....	8.57	7.00	18.21	12.40
17473	1.66	1.00	3.00	3.00	1.70	.....	7.72	9.00	17.58	17.80
17309	1.42	1.00	2.96	3.00	1.27	.....	9.47	9.00	20.52	17.80
17558	1.38	1.00	4.18	1.00	1.72	.....	7.98	8.00	20.07	14.60
17353	1.16	1.00	2.22	2.00	1.02	.....	8.57	8.00	17.55	15.60
17354	2.25	2.00	3.60	3.00	1.60	.....	7.92	8.00	22.74	20 60
17288	2.30	2.00	2.66	3.00	1.52	2.00	8.31	8.00	22.44	21 40
17395	1.43	1.00	1.88	1.50	1.35	2.00	7.10	8.00	16.66	15.90
9734	1.33	1.00	1.88	1.50	1.10	2.00	11.32	8.00	21.22	15.90
9733	1.37	1.00	1.94	1 50	0.78	2.00	8.50	8.00	17.93	15.90
17310	0.53	0.25	3.06	2.00	0.17	.....	10.72	10.00	18.11	15.00

* Total Phosphoric Acid.

† Total "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17315	Piedmont-Mt. Airy Guano Co., Baltimore, Md.	Piedmont Fish Guano....	Baltimore.....
17312	" " "	Piedmont H.G.S.C. Bone.	Baltimore.....
17450	" " "	Piedmont H.G. S.C. Bone.	Owings Mills.....
17501	" " "	Piedmont Perfection Guano.	Baltimore.....
17276	" " "	Piedmont Perfection Guano	Gaithersburg..... (T. Cavanaugh.)
17592	" " "	Piedmont Plow Brand....	Snow Hill.....
17544	" " "	Piedmont Potato Producer	Baltimore.....
17311	" " "	Piedmont Pure Raw Bone Mixture.	Baltimore.....
17394	" " "	Piedmont Raw Bone Meal.	Mt. Airy.....
17355	" " "	Piedmont Royal Ammoniated Bone and Potash.	Baltimore.....
17393	" " "	Piedmont Success.....	Mt. Airy....
17498	" " "	Soluble Bone and Potash.	Baltimore.....
17497	" " "	Special Potash Mixture..	Baltimore.....
17397	" " "	Special Wheat and Grass Phosphate.	Mt. Airy.....
17396	" " "	Standard Dissolved Bone Phosphate.	Mt. Airy.....
17500	" " "	Piedmont Wheat Compound.	Baltimore.....
17375	The Pollock Fertilizer Co., Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore.....
17489	" " "	Crop Invigorator.....	Baltimore.....
17522	" " "	Corn & Tomato Fertilizer.	Conowingo.....
17300	" " "	Dissolved Bone and Potash.	Baltimore.....
17292	" " "	Dissolved Bone and Potash.	Park Hall..... (G. D. Hammett.)
17578	" " "	Dissolved S. C. Bone....	Emmitsburg.....
17503	" " "	Ground Animal Bone....	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17315	2.46	2.00	2.56	2.00	1.77	.....	7.30	8.00	\$21.87	\$19.60
17312	.....	.....	.....	.....	0.17	.....	14.45	14.00	13.04	12.60
17450	.....	.....	.....	.....	0.15	.....	14.10	14.00	12.72	12.60
17501	2.35	2.00	5.66	5.00	1.78	.....	8.41	8.00	25.86	22.60
17276	2.03	2.00	5.32	5.00	0.53	.....	8.21	8.00	23.50	22.60
17592	1.74	2.00	2.36	2.00	2.10	.....	8.61	8.00	20.49	19.60
17544	1.84	3.00	4.74	6.00	1.68	.....	7.87	5.00	22.21	24.00
17311	1.43	1.25	2.54	2.00	2.80	.....	8.69	8.00	19.81	16.60
17394	4.93	4.00	.....	.....	24.13*	20.40*	.....	.....	29.27	24.24
17355	1.84	1.30	2.62	3.00	1.82	.....	5.22	6.00	16.97	15.40
17393	0.39	0.25	5.90	5.00	0.25	.....	10.13	8.00	19.72	15.60
17498	.....	.....	2.34	2.00	0.18	.....	8.71	8.00	10.42	9.20
17497	.....	.....	5.60	5.00	0.18	.....	10.63	10.00	15.21	14.00
17397	2.03	2.00	3.06	2.00	0.60	1.00	8.55	8.50	21.68	20.60
17396	1.35	1.00	2.86	2.00	0.70	1.50	9.88	10.00	20.40	18.60
17500	.....	.....	5.84	5.00	0.08	.....	10.82	12.00	15.60	15.80
17375	2.13	2.00	2.14	2.00	1.48	1.00	8.45	8.00	21.39	20.00
17439	1.38	1.00	4.58	4.00	1.38	1.00	8.13	8.00	20.41	18.00
17522	1.18	1.00	2.20	2.00	1.20	1.00	8.28	8.00	17.34	16.00
17300	.....	.....	4.04	4.00	1.50	1.00	10.65	10.00	13.93	13.20
17292	.....	.....	5.56	4.00	0.55	1.00	10.02	10.00	14.69	13.20
17578	.....	.....	.....	.....	1.57	1.00	14.08	14.00	12.98	12.80
17503	4.61	4.00	.....	.....	21.10*	22.00*	.....	.....	26.49	25.20

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
17302	The Pollock Fertilizer Co., Baltimore, Md.	Owl Brand Guano.....	Baltimore.....
17545	" " "	Soft Ground Bone.....	Baltimore.....
17502	" " "	Soluble Bone Phosphate..	Baltimore.....
17416	" " "	Special Tobacco and Po- tato Fertilizer.	Baltimore.....
17363	" " "	Special Wheat Grower...	Baltimore.....
17523	" " "	Special Wheat Grower...	Cardiff.....
17301	" " "	Victor Bone Phosphate...	Baltimore.....
17289	" " "	12-5.....	Cordova (Wm. A. Wall.)
17476	Ramsburg Fertilizer Co., Frederick, Md.	Alkaline Phosphate.....	Monrovia.....
17478	" " "	Ammoniated Bone Phos- phate.	Pt. of Rocks.....
17385	" " "	Ammoniated Bone Phos- phate.	Mt. Airy.....
17458	" " "	Dissolved Bone Super- Phosphate.	Poolesville.....
17294	" " "	Dissolved Bone Super- Phosphate	Bartholows (Wm. E. Murphy.)
17579	" " "	Excelsior Half and Half..	Jefferson....
17480	" " "	Excelsior Plant Food....	Silver Spring.....
17477	" " "	Old Virginia Compound..	Frederick.....
17475	" " "	Ramsburg's Queen.....	Monrovia.....
17265	" " "	Special Mixture.....	Monrovia (N. H. Albaugh.)
17296	" " "	William's Wheat and Grass Fertilizer.	Bartholows (Wm. E. Murphy.)
17472	" " "	William's Wheat and Grass Fertilizer.	Monrovia.....
17398	Rasin-Monumental Co., Bal- timore, Md.	Acid Phosphate.....	Woodsboro.....
17550	" " "	Best Wheat and Grass Producer.	Baltimore.....
17451	" " "	Bone and Potash Fertil- izer.	Hampstead.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17302	0.66	0.50	1.58	1.50	1.32	1.00	7.11	7.00	\$13.28	\$12.30
17545	3.23	3.00	.....	.....	16.47*	14.00*	.....	.....	19.57	17.40
17502	.....	.....	2.10	2.00	1.45	1.00	10.66	10.00	11.98	11.20
17416	2.25	2.00	4.50	4.00	1.82	1.00	7.68	8.00	23.45	22.00
17363	1.13	1.00	1.6	2.00	1.70	1.00		8.00	16.66	16.00
17523	1.08	1.00	2.02	2.00	1.35	.....	9.14	8.00	17.85	15.60
17301	.....	.....	1.24	1.00	1.95	1.00	9.25	9.00	9.96	9.30
17289	.....	.....	5	5.00	0.52	.....	12.18	12.00	16.44	15.80
17476	.....	.....	2.72	2.00	3.67	2.00	8.11	10.00	10.75	11.40
17478	0.97	1.00	1.56	2.00	1.00	2.00	11.38	10.00	19.50	18.80
17385	0.94	1.00	1.66	2.00	2.72	2.00	10.16	10.00	18.70	18.80
17458	.....	.....	.....	.....	2.98	2.00	12.13	14.00	11.52	13.00
17294	.....	.....	.....	.....	3.32	2.00	11.74	14.00	11.23	13.40
17579	0.89	1.00	0.78	1.00	1.78	2.00	12.33	10.00	19.85	17.80
17480	2.01	2.00	1.94	2.00	2.02	.....	11.21	9.00	24.24	20.80
17477	1.35	1.50	1.02	2.00	2.05	2.00	11.37	9.00	20.88	19.60
17475	0.53	0.50	1.04	1.00	1.42	2.00	12.61	8.00	18.86	13.40
17265	2.80	2.50	3.02	3.50	1.32	.....	10.53	9.50	27.39	24.90
17296	0.92	1.00	2.54	2.00	2.70	2.00	8.67	8.00	17.70	16.40
17472	0.90	1.00	1.42	2.00	1.60	2.00	11.52	8.00	19.48	16.40
17398	.....	.....	.....	.....	1.76	1.00	13.86	14.00	12.82	12.80
17550	1.55	1.50	2.64	3.00	4.70	1.00	7.43	8.00		19.00
17451	.....	.....	2.01	2.00	2.15	1.00	9.69	10.00	11.16	11.20

* Total Phosphoric Acid.

No.	Name and address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17459	Rasin-Monumental Co., Bal- timore, Md.	Dissolved Bone.....	Gaithersburg.....
17546	" " "	Early Truckers' Special..	Baltimore.
17525	" " "	Empire Guano.....	Cardiff.....
17547	" " "	Half and Half Mixture...	Baltimore.....
17273	" " "	High Grade Bone and Pot- ash.	Church Hill..... (W. H. Milby.)
17507	" " "	National Crop Compound.	Baltimore.
17518	" " "	Rasin's I. X. L. Fertilizer	Baltimore.....
17506	" " "	Sea Wall Special.....	Baltimore.....
17321	" " "	Special Bone and Potash.	Baltimore.
9754	" " "	Special Bone and Potash	Baltimore.
9753	" " "	Special Formula for Corn and Tomatoes.	Baltimore.
17590	" " "	Special for Vines and Vegetables.	Baltimore.....
17417	" " "	Wheat, Corn and Oats Mixture.	Baltimore.....
17551	" " "	Wheat and Potash Mix- ture.	Baltimore.....
17505	" " "	William Penn Crop Grower	Baltimore.....
17576	" " "	William Penn Crop Grower	Crumpton.....
17585	" " "	Wright's Double Potash Phosphate.	Federalsburg.....
17504	" " "	Rasin's X. X. X. Fertilizer	Baltimore.....
17526	The Scott Fertilizer Co., Elkton, Md.	Bush River Compound....	Aberdeen.....
17527	" " "	Pure Ground Raw Bone..	Aberdeen.....
17564	" " "	Soluble Bone and Potash, 12x5.	Childs.....
17565	" " "	Standard Phosphate.	North East.....
17566	" " "	Sure Growth Compound..	North East.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17459	2.10	2.00	.....	.....	2.65	1.50	13.15	10.00	\$25.24	\$20.60
17546	4.01	5.00	5.03	5.00	3.80	1.00	6.51	6.00	30.40	32.60
17525	1.86	2.00	1.60	1.00	4.18	.....	8.86	8.00	21.34	18.60
17547	.....	.....	3.40	3.00	7.65	1.00	8.56	6.00	12.63	8.60
17273	.....	.....	5.66	5.00	1.62	1.00	11.63	12.00	16.45	16.00
17507	1.09	1.00	4.86	4.00	3.32	1.00	7.82	8.00	19.93	18.00
17518	1.18	1.00	4.14	3.00	2.48	1.00	9.79	9.00	21.60	18.20
17506	.....	.....	.....	.....	1.42	1.00	9.90	10.00	9.19	9.20
17321	.....	.....	3.72	3.00	2.10	1.00	12.42	12.00	15.32	14.00
9754	.....	.....	5.56	5.00	0.30	.....	9.57	10.00	14.23	14.00
9753	.....	.....	3.52	3.00	2.55	1.00	10.57	6.00	13.54	8.60
17590	1.13	1.00	9.50	8.00	3.38	1.00	8.02	8.00	24.99	22.00
17417	0.80	0.50	2.50	2.00	3.30	1.00	8.02	8.00	16.64	14.00
17551	.....	.....	5.04	5.00	3.75	1.00	8.70	8.00	13.62	12.40
17505	11.5	1.00	1.70	1.00	3.25	1.00	8.10	8.00	18.92	15.00
17576	1.18	1.00	1.16	1.00	3.25	1.00	7.33	8.00	15.98	15.00
17585	.....	.....	4.14	4.00	3.57	1.00	9.76	9.00	13.63	12.30
17504	2.01	2.00	5.22	5.00	3.15	1.00	8.47	8.00	24.68	23.00
17526	3.36	4.00	6.34	7.00	1.10	.....	10.12	7.00	32.36	31.40
17527	5.10	4.00	.....	.....	23.16*	22.00*	.....	.....	29.20	25.20
17564	.....	.....	4.78	5.00	1.20	.....	12.65	12.00	16.41	15.80
17565	1.52	1.50	1.82	2.00	1.10	.....	9.79	8.00	20.09	17.60
17566	3.62	4.00	8.26	7.00	1.08	.....	7.67	7.00	32.37	31.40

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17561	Scott Fertilizer Co., Elkton, Md.	Sure Growth Super-Phosphate.	Rising Sun
17560	" " "	Tiptop and Potash.....	Rising Sun
17567	" " "	Tiptop Soluble Bone	Childs
17562	" " "	Wheat and Grass Grower.	Rising Sun
17313	Southern Fertilizer Co., Chanceford, Pa.	Ammoniated Dissolved Bone.	Baltimore.....
17327	" " "	Dissolved Bone Phosphate	Baltimore.....
17377	" " "	Farmers' Choice Brand...	Baltimore.....
17328	" " "	Farmers' Mixture.....	Baltimore.....
17329	" " "	Soluble Bone and Potash.	Baltimore.....
17314	" " "	Special Potato Grower ..	Baltimore.....
17376	" " "	Wheat, Corn and Grass Grower.	Baltimore.....
17400	Stouffer & Bennett, New Windsor, Md.	Butcher-house Phosphate.	New Windsor
17399	" " "	Wheat Grower Phosphate.	New Windsor
17528	W. H. Street & Co., Falls- ton, Md.	Ammoniated Dissolved Bone.	Fallston
17529	" " "	High Grade Bone Phosphate.	Fallston
17530	" " "	South Carolina Rock.....	Fallston
17461	Swift & Co., Chicago, Ill..	Onion, Potato and Tobacco Fertilizer.	Silver Spring
17460	" " "	Pure Super-Phosphate....	Silver Spring
17508	H. S. Taveau & Co., Balti- more, Md.	Bone Mixture.....	Baltimore.....
17509	" " "	Dissolved South Carolina Bone.	Baltimore.....
17356	" " "	Florida Acid Phosphate ..	Baltimore.....
17357	" " "	Pure Ground Bone Meal...	Baltimore.....
17358	" " "	Special Wheat Mixture...	Baltimore.....

FERTILIZER ANALYSES.

49

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17561	2.46	2.00	3.56	3.00	3.25	2.00	9.05	8.00	\$25.56	\$21.40
17560	.....	.....	2.14	2.00	1.67	.....	10.97	10.00	12.34	11.00
17567	.....	.....	.....	.....	1.32	.....	14.78	14.00	13.56	12.60
17562	0.77	2.00	2.46	2.00	0.75	.....	9.83	10.00	17.64	22.00
17313	2.12	2.00	2.56	2.50	1.60	.....	9.83	10.00	23.48	22.50
17327	.....	.....	.....	.....	1.70	.....	14.02	14.00	12.96	12.60
17377	1.13	1.00	1.90	2.00	1.65	.....	9.08	9.00	17.98	16.80
17328	.....	.....	2.04	2 00	1.70	.....	10.03	10.00	11.41	11.00
17329	.....	.....	2.06	2 00	1.15	.....	11.44	11.00	12.59	11.90
17314	1.71	1.50	4.20	4.00	1.97	.....	8.10	8.00	21.55	19.60
17376	1.26	2.00	3.42	2.00	0.88	.....	8.50	8.00	19.01	19.60
17400	0.51	0.75	3.08	2.50	3.52	1.00	9.50	8.00	17.93	15.50
17399	0.32	0.50	3.62	2.00	1.38	2.00	10.17	7.00	17.65	13.20
17528	1.81	1.50	2.18	2.00	0.62	.....	9.36	9.00	20.90	18.80
17529	2.24	2.50	3.64	5 55	1.25	.....	8.11	20.79	22.83	.....
17530	.....	.....	.....	.....	1.38	.....	14.05	14.00	12.93	12.60
17461	2.00	2.00	6.84	7.00	2.18	3.00	9.04	10.00	26.56	28.20
17460	2.30	3.00	2.16	3.00	2.58	4.00	7.69	10.00	21.62	28.60
17508	1.06	1.00	2.74	2.00	1.05	.....	9.82	10.00	19.18	18.00
17509	.....	.....	.....	.....	1.30	.....	13.46	14.00	12.37	12.60
17356	.....	.....	.....	.....	1.70	.....	14.13	14.00	13.06	12.60
17357	3.11	3.00	.....	.....	16.24*	17.43*	.....	.....	19.07	19.46
17358	.....	.....	2.04	2.00	2.02	.....	10.19	10.00	11.61	11.00

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17359	H. S. Taveau & Co., Baltimore, Md.	Wheat and Grass Compound.	Baltimore.....
17581	D. A. Thomas and Co., Hagerstown, Md.	Bone Mixture.....	Hagerstown.....
17580	" " "	Crown Jewel.....	Hagerstown.....
17582	" " "	Farmers' Mixture.....	Hagerstown.....
17583	" " "	Golden Sheaf.....	Boonsboro
17584	" " "	Soluble Bone and Potash.	Boonsboro
17593	W. B. Tilghman Co., Salisbury, Md.	Bone Tankage Mixture...	Snow Hill.....
17594	" " "	Fish, Bone and Potash Mixture	Salisbury.....
17595	" " "	Special Mixture.....	Snow Hill.....
17596	E. W. Truitt & Co., Salisbury, Md.	Fish Mixture X. X.....	Salisbury.....
17441	Turner & Son, Betterson, Md.	Bone Phosphate for Wheat and Grass.	Baltimore.....
17370	Tuscarora Fertilizer Co., Baltimore, Md.	Acid Phosphate.....	Baltimore.....
17340	" " "	Alkaline	Baltimore.....
17511	" " "	Animal Bone.....	Baltimore.....
17326	" " "	Big (4) Four Fertilizer..	Baltimore.....
17339	" " "	Bone and Potash.....	Baltimore.....
17510	" " "	Cereal Phosphate.....	Baltimore.....
17591	" " "	Special Crop Grower....	Baltimore.....
17559	" " "	Special Mixture.....	Blue Ball.....
17338	" " "	Sure Growth.....	Baltimore.....
17365	" " "	York State Special.....	Baltimore.....
17570	The J. E. Tygert Co., Philadelphia, Pa.	Acid Phosphate.....	Cordova.....
17568	" " "	Bone Phosphate.....	Childs.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17359	.....	.....	2.94	2.50	1.75	.....	10.83	11.00	\$13.04	\$12.40
17581	2.10	2.00	2.18	2.00	1.25	.....	10.05	8.00	23.14	19.60
17580	1.37	1.00	3.81	3.00	1.55	.....	9.03	9.00	20.75	17.80
17582	1.23	1.00	2.94	2.00	1.27	.....	8.25	8.00	18.27	15.60
17583	1.50	1.00	1.54	1.00	2.02	.....	8.32	8.00	18.33	14.60
17584	.....	.....	1.52	2.00	1.32	.....	10.20	10.00	10.96	11.00
17593	1.52	2.00	2.26	2.00	1.50	.....	10.02	8.00	20.96	19.60
17594	1.08	1.00	1.62	2.00	1.27	.....	11.10	10.00	19.77	18.00
17595	0.49	0.33	2.23	2.00	0.80	.....	10.74	12.00	17.45	17.72
17596	2.87	2.50	2.54	2.00	5.00	2.00	5.58	8.00	22.72	22.40
17441	2.03	1.75	2.54	2.50	1.47	.....	11.12	10.00	24.59	21.50
17370	.....	.....	.....	.....	0.18	.....	14.37	14.00	12.97	12.60
17340	.....	.....	5.14	5.00	0.38	.....	10.59	10.00	14.75	14.00
17511	3.33	3.00	.....	.....	25.98*	24.00*	.....	.....	25.58	23.40
17326	2.15	2.00	5.10	4.00	1.60	.....	7.45	7.00	23.28	20.40
17339	.....	.....	2.00	2.00	0.22	.....	11.00	10.00	11.94	11.00
17510	.....	.....	.....	.....	0.25	.....	11.05	10.00	10.00	9.00
17591	0.97	1.00	2.18	2.00	1.12	.....	7.16	8.00	15.10	15.60
17559	2.08	2.00	5.40	5.00	2.27	.....	8.97	8.00	25.39	22.60
17338	0.60	0.50	3.03	3.00	0.90	.....	8.50	8.00	15.99	14.60
17365	1.16	1.00	4.32	4.00	1.07	.....	8.45	8.00	19.53	17.60
17570	.....	.....	.....	.....	1.28	.....	13.05	14.00	12.01	12.60
17568	2.26	2.25	2.51	2.50	0.90	2.00	9.30	9.00	23.07	23.10

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17552	The J. E. Tygert Co., Philadelphia, Pa.	Golden Harvest Phosphate	Baltimore.
17569	" " "	Standard Bone Phosphate	Childs.
17553	" " "	Victor Bone and Potash..	Baltimore.
17462	J. Tyson & Sons, Frederick, Md.	Ammoniated Super-Phosphate.	Frederick.
17463	" " "	Half and Half Super-Phosphate.	Frederick.
17464	" " "	Special Mixture.	Point of Rocks.
17418	E. S. Valliant & Sons, Church Hill, Md.	Ammoniated Potash Mixture.	Baltimore.
17422	" " "	Grain Grower.	Baltimore.
17263	Virginia-Carolina Chemical Co., Baltimore, Md.	Acid Phosphate 14%	Union Mills. (E. H. Flickinger)
17405	" " "	Acid Phosphate 14%	Baltimore.
17470	" " "	Fish, Bone and Potash..	Sandy Spring.
17471	" " "	Giant Bone and Potash..	Silver Spring.
17512	" " "	High Grade Bone and Potash.	Baltimore.
17468	" " "	National Ammoniated Guano.	Silver Spring.
17407	" " "	Peerless Bone and Potash	Westminster.
17548	" " "	South Carolina Phosphate	Hancock.
17467	" " "	Special Compound for Wheat.	Silver Spring.
17599	" " "	Special Bone and Potash.	Baltimore.
17420	" " "	Special Potash Mixture..	Baltimore.
17465	" " "	Standard Bone and Potash	Silver Spring.
17419	" " "	Standard Corn and Grain Grower.	Baltimore.
17469	" " "	Standard Crop Grower..	Silver Spring.
17406	" " "	Union Super-Phosphate..	Westminster.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17552	0.60	0.50	2.20	2.00	1.08	.....	7.91	8.00	\$14.52	\$13.60
17569	2.20	2.00	2.30	2.00	0.85	1.00	8.70	8.00	21.88	20.00
17553	1.14	1.00	3.84	4.00	1.28	.....	9.03	8.00	19.75	17.60
17462	1.00	1.00	2.01	2.00	2.32	.....	7.48	10.00	15.92	18.00
17463	0.87	1.00	1.70	1.00	1.98	.....	6.83	10.00	14.17	17.00
17464	0.77	1.00	1.50	1.00	1.78	.....	9.03	8.00	16.13	14.60
17418	0.55	0.50	2.42	2.00	0.88	1.00	9.27	10.00	16.09	16.40
17422	0.68	0.50	2.44	2.00	0.92	1.00	7.75	8.00	14.83	14.00
17263	.....	.....	.....	.....	2.20	1.00	13.65	14.00	12.73	12.80
17405	.....	.....	.....	.....	1.77	1.00	13.72	14.00	12.70	12.80
17470	2.29	2.00	3.56	3.00	4.72	1.00	7.43	8.00	23.53	21.00
17471	.....	.....	6.26	6.00	0.40	1.00	14.06	12.00	18.99	17.00
17512	.....	.....	4.50	5.00	2.08	1.00	12.33	12.00	16.02	16.00
17468	1.19	1.00	3.54	4.00	3.70	1.00	7.36	8.00	18.61	18.00
17407	.....	.....	1.76	2.00	1.48	.....	8.26	8.00	9.49	9.20
17548	.....	.....	.....	.....	1.62	.....	13.89	14.00	12.82	12.60
17467	1.28	1.00	1.00	1.00	4.40	1.00	7.81	8.00	17.25	15.00
17599	.....	.....	5.24	5.00	1.92	1.00	11.17	10.00	15.67	14.20
17420	.....	.....	5.26	5.00	2.57	1.00	6.47	8.00	11.59	12.40
17465	.....	.....	1.60	2.00	2.72	1.00	9.01	1.00	10.25	11.20
17419	0.84	0.50	2.84	2.00	3.25	1.00	7.06	8.00	15.97	14.00
17469	2.05	2.00	2.68	2.00	3.94	1.00	8.38	8.00	22.52	20.00
17406	.....	.....	2.28	3.00	1.50	1.00	5.75	6.00	7.76	8.60

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
17442	Virginia Carolina Chemical Co., Baltimore, Md.	Wheat Potash Mixture...	Baltimore.....
17586	S. L. Webster & Son, Cambridge, Md.	Ammoniated Bone Fertilizer No. 1.	Cambridge.....
17587	" " "	Ammoniated Bone Fertilizer No. 2.	Cambridge.....
17571	" " "	Bone and Potash.....	Two Johns.....
17513	" " "	Old Dorset Ammoniated Bone Fertilizer.	Baltimore.....
17401	Westminster Fertilizer Co., Westminster, Md.	Big Gun.....	Westminster.....
17402	" " "	Governor's Ammoniated Concentrated Phosphate.	Westminster.....
17403	" " "	Leader.....	Westminster.....
17404	" " "	Super "A".....	Westminster.....
17531	Harry W. Whistler, Fountain Green, Md.	Crop Grower.....	Fountain Green...
17532	O. M. Whitaker, Reckord, Md.	Animal Bone Mixture....	Reckord.....
17360	The Robert A. Wooldridge Co., Baltimore, Md.	No. 1 Bone and Potash 6 x 3.	Baltimore.....
17345	" " "	Champion Giant Phosphate.	Baltimore.....
17457	" " "	Chieftain Bone Stock Phosphate.	White Hall.....
17423	" " "	Farmers' Favorite Cereal Compound.	Baltimore.....
17364	" " "	Florida Acid Phosphate..	Baltimore.....
17341	" " "	German Potash Mixture..	Baltimore.....
17342	" " "	Ideal Grain and Grass Producer.	Baltimore.....
17320	" " "	Liberty Bell Potash Mixture.	Baltimore.....
9736	" " "	Liberty Bell Potash Mixture.	Bethlenem (J. F. Jester.)
17380	" " "	Old Sledge Phosphate. ...	Baltimore.....
17319	" " "	Pure Raw Bone.....	Baltimore.....
17268	" " "	Pure Raw Bone.....	Clarksville (John J. Cooney.)

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
17442	.....	.....	5.34	5.00	2.17	1.00	6.55	8.00	\$11.67	\$12.40
17586	2.10	2.50	3.75	2.50	1.27	.....	12.14	10.00	27.23	24.50
17587	2.17	2.00	2.66	2.00	3.55	.....	8.07	8.00	22.44	19.60
17571	.....	.....	3.28	2 00	1.08	.....	10.43	10.00	12.89	11.00
17513	1.06	0.50	5.12	4.00	1.70	3.00	7.05	6.00	18.50	14.40
17401	2.35	2.00	2.18	2.00	1.20	.....	10.26	10.00	24.37	22.00
17402	1.83	1.50	2.44	2.50	1.28	.....	9.64	9.00	21.84	19.30
17403	1.14	1.00	1.74	1.50	0.88	.....	8.15	8.00	16.43	15.10
17404	0.80	0.75	1.32	1.00	0.85	.....	8.62	8.00	15.20	13.60
17531	1.62	1.50	2.80	2.00	2.00	.....	8.87	8.00	20.72	17.60
17532	2.47	2.25	3.00	2.25	4.32	6.00	8.13	8.00	24.37	23.25
17360	.....	.....	3.42	3.00	0.72	1.00	5.99	6 00	8.95	8.60
17345	1.18	1.00	2.06	2.00	1.00	1.50	9.39	9.00	18.45	17.40
17457	2.03	2.00	2.00	2.00	1.32	1.25	8.98	8.00	21.43	20.10
17423	0.70	0.50	2.01	2.00	0.90	1.00	6.02	7.00	12.39	12.80
17364	.....	.....	.....	.....	2.60	1.00	13.96	14.00	13.08	12.80
17341	.....	.....	1.90	2 00	1.87	1.00	10.29	10.00	11.53	11.20
17342	...	.....	3.49	4.00	1.17	1.00	10.88	10.00	13.51	13.20
17320	.....	.....	2.86	3.00	1.20	1.00	12.66	12.00	14.50	14.00
9736	.....	.....	3.04	3.00	0.97	1.00	12.07	12.00	14.09	14.00
17380	.....	.....	4.74	5.00	1.90	1.00	12.00	12.00	15.92	16.00
17319	4.18	4.00	.....	.....	25.01*	45.00†	.....	.....	27.55	24.38
17268	4.25	4.00	.....	.....	25.26*	45.00†	.....	.....	27.91	24.38

* Total Phosphoric Acid.

† Total "Bone Phosphate."

NO.	NAME AND ADDRESS OF MANUFACTURER.	NAME OF FERTILIZER.	Place of Sampling (and Sampler, when not the College.)	Nitrogen Calculated as Ammonia.		Potash, K ₂ O.	Phosphoric Acid.				Comparative Value Per Ton Found.	Comparative Value Per Ton Guaranteed.	
				FOUND.	Guaranteed.		Insoluble.		Available.				
							FOUND.	Guaranteed.	FOUND.	Guaranteed.			
17456	The Robert A. Wooldridge Co., Baltimore, Md.	Special Potato Fertilizer..	White Hall.....	2.18	2.	4.74	5.	2.10	1.50	8.12	9.	24.04	24.40
9746	"	Special Mixture.....	Randallstown....	3.55	3.	3.34	3.	1.72	.....	8.47	8.	28.39	24.60
17344	"	Triumph Pure Bone Phosphate.	Baltimore.....	1.67	1.50	3.18	4.	2.05	2.	7.48	8.	19.66	20.40
17554	The Wooldridge Fertilizer Co., Baltimore, Md.	Clover Leaf Crop Grower.	Baltimore.....	0.67	.50	2.50	2.	.82	1.50	7.40	8.	14.39	14.20
17514	"	Cyclone.....	Baltimore.....	3.07	3.	3.36	3.	.92	2.	8.02	8.	25.63	25.40
17515	"	Faultless Bone Phosphate.	Baltimore.....	2.66	2.	2.74	2.	.70	2.	8.15	8.	23.44	20.40
17425	"	German Alkaline Mixture.	Baltimore.....	.....	.....	2.20	2.	1.05	1.	11.08	10.	12.38	11.20
17555	"	Old Hickory Phosphate..	Baltimore.....	1.31	1.	2.46	2.50	.90	1.50	9.43	8.	19.38	16.70
17343	"	Orchilla Guano.....	Baltimore.....	.....	.....	.....	.....	13.06	13.	8.49	4.	10.25	3.86
17424	"	Tiger Bone Stock Phosphate.	Baltimore.....	1.62	1.25	4.04	4.50	.70	1.50	8.33	8.	20.80	19.70
17443	"	Virginia Belle Potash Mixture.	Baltimore.....	.....	.....	3.74	3.	1.00	1.00	11.27	12.	14.08	14.00
17361	Wright & Lowe, Centerville, Md.	Enterprise Phosphate for Grain and Grass.	Baltimore.....	1.14	1.	2.10	2.00	1.17		9.30	9.	18.29	16.80

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